

# Sinclair QL



*Historical Sinclair QL UK magazine  
game advertisement collection.*



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## SINCLAIR QL KNIGHT FLIGHT

- ★ ADDICTIVE ARCADE ACTION
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Real arcade action for your QL.  
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Forget just vector graphics. Now you can have real shaded 3D, solid objects that pass behind one another.  
A space shoot-em-up which is more addictive, has more game and has more powerful graphics than starstrike.  
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Rush me: ☐ Knight Flight (QL) £14.95 ☐ Starstrike II (Spectrum) £7.95  
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# KNIGHT FLIGHT



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- ★ Addictive arcade action
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- ★ Up to 21 moving full colour sprites
- ★ One or two player game option
- ★ Joystick/Keyboard

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Rush me Knight Flight QL

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# The first QL adventures from TALENT!

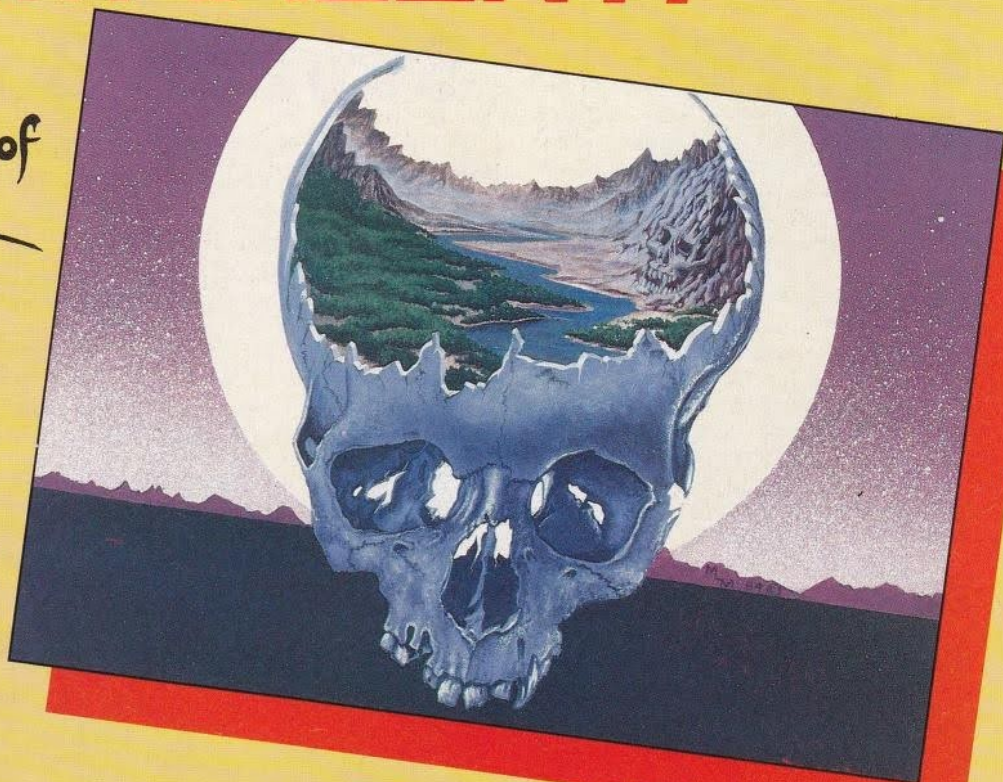
## The Lost Kingdom of ZKOL

Explore the ancient dwelling-place of the Dwarves – where the Wizard guards the last precious secret.

A classic and complex text adventure with hundreds of locations and a huge vocabulary. Set in real-time with traps, tasks, puzzles and mazes – and a special note-pad feature to aid you.

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## WEST

You are on the track of a notorious gang of bank robbers who have gone to ground near an abandoned mining town deep in Indian territory. Your task – to outwit and outgun the robbers, collect as much loot as possible and piece together clues on how to escape.

A demanding and exciting text adventure for the experienced games-player, using over 200 words and as many phrases. There are over 130 locations to search – not all of them easy to find. Events happen in real-time outside your control – Indians charge, rattle-snakes slither past and robbers appear and shoot at you. How long can you survive?

PRICE  
**£19.95**  
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# TALENT

COMPUTER SYSTEMS

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# MICRODEALS

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HELP HOPPY TO HIS HOME  
MICRODRIVE £14.95  
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### INTO ARCADE GAMES



1ST  
ARCADE  
GAME FOR  
QL



CUTHBERT  
HIT

OUR FAVOURITE ARCADE GAME  
HELP CUTHBERT LOOT THE MORONIANS PLANET  
EX NO 1 HIT FOR THE DRAGON  
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UNBELIEVABLE 2000  
SCREEN ARCADE ADVENTURE  
OVER 1 YEAR IN THE MAKING

COMES COMPLETE WITH  
9 FULL COLOUR MAPS

NOW AVAILABLE ON THE QL

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2000  
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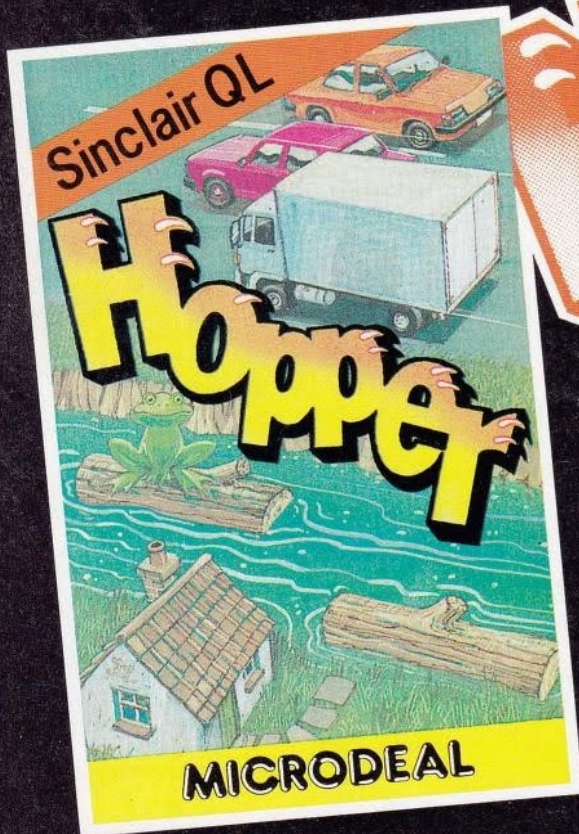


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# THE **1<sup>ST</sup>** QUALITY ARCADE GAME FOR THE SINGLAIR **QL**



# Hopper

## £14.95

POST &  
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ON MICRODRIVE

Microdeal have taken the QL and produced an arcade game worthy of the high quality graphics the machine is capable of.

Can you guide Hoppy safely home from the spawning grounds across the busy 6 lane

motorway and the maelstrom of the cascading river to his home safe on the riverbank? As your skill increases so does the volume of traffic and the snake and crocodile in the river get angrier and angrier whilst the logs get less and less.

Written in 100% machine code with full colour graphics and sound. Joystick or keyboard compatibility this is a must for your software collection.

Credit Card Orders

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Mail Order

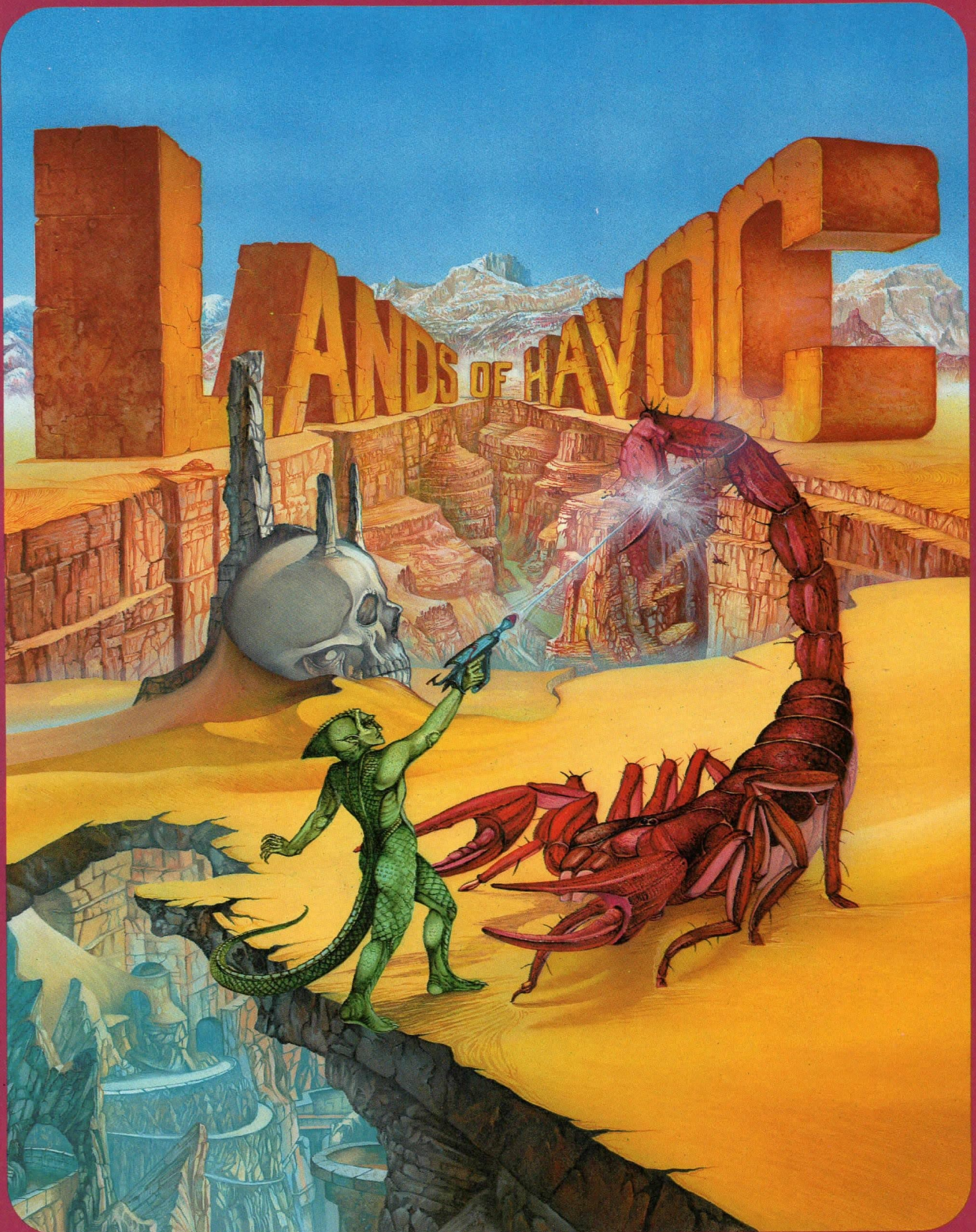
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# MICRODEAL



# COMMODORE 64/SINCLAIR QL

2,000 Screen Arcade Adventure

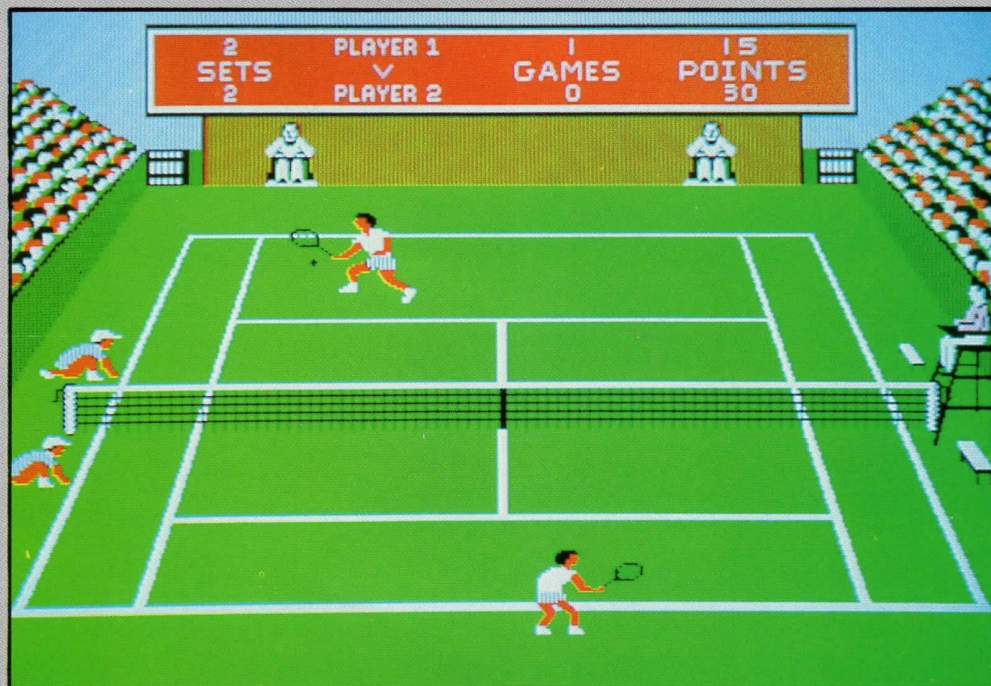


## MICRODEAL



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FAST ACTION GRAPHICS • FULL PLAYER CONTROL  
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QL Chess £19.95 + £1.00

Post Code

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QDRAW

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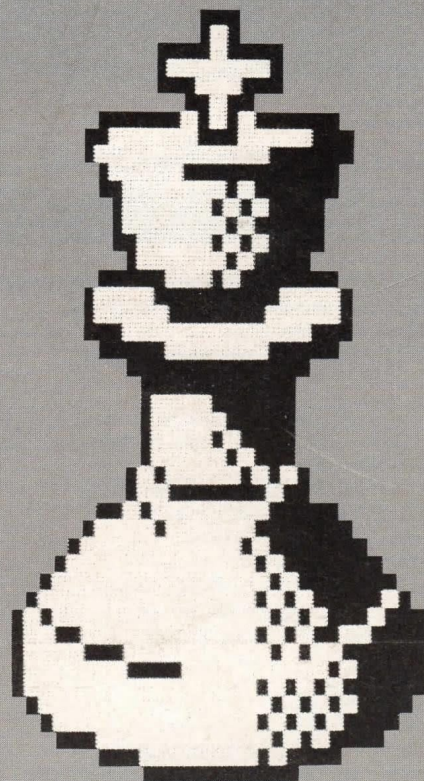
Psion's powerful in-house  
graphics development  
package for your QL

**ONLY £14.95**

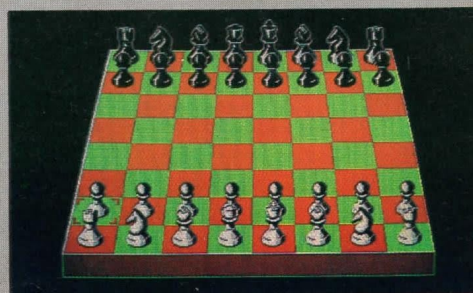
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the QL in either high or low  
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images as seen in CHESS and  
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programs such as QL EASEL.



CHESS £19.95

Available from your local stockist. For further information contact the  
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**NEW****BJ THE RETURN**

QL Caverns 2™

Solve the BJ mystery and win a Floppy Disk System + ICE full details within

**D**runx has died leaving BJ helpless in the caverns. Good Heavens Above!! Matilda the magic fairy has agreed to let BJ go providing he collects all the miracles from the caverns. A formidable task awaits you as you join BJ in this mega sequel to QL Caverns™

**£12.95**

QL Caverns is a trade mark of Sinclair Research Ltd.



Joysticks for Super Smooth Action. Suit all games and ICE.  
**Sureshot QL £19.95.** The Ultimate in Control.  
**Quickshot QL £12.95.** Standard.  
**QL Convert Lead for ATARI Joysticks £5.49**  
 \*£1 Discount if purchased with program

**ZAPPER**  
NOW WITH EAGLE**NEW**

Two great machine code QL games for the price of one! Zapper the snappy arcade game is now joined by "Defender" style eagle.

**Amazing Value**  
**£10.95**

Eidersoft, The Office, Hall Farm, North Ockendon, Upminster, Essex RM14 3QH.

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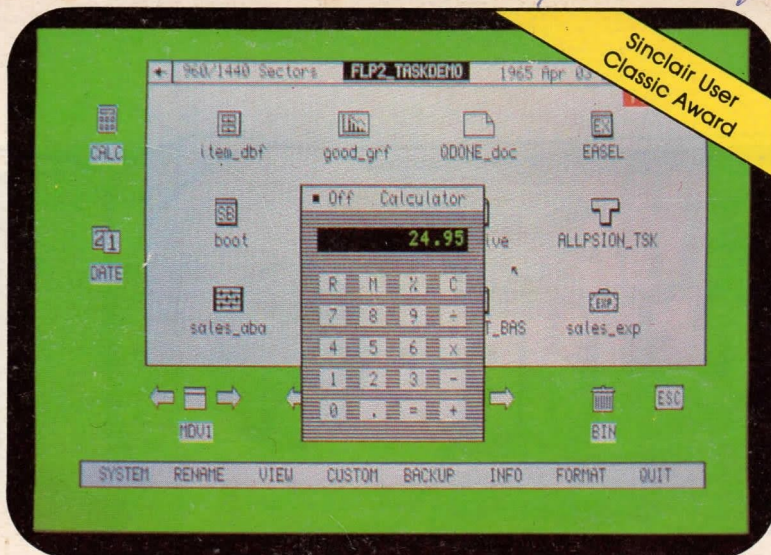
**SPOOK****NEW**

This is one of the best muncher games we have seen on a micro! Full features include multiple screens, fruits, sliding doors, swing doors and much more! Joystick/cursor/sound. **£12.95**

**CREDIT CARDS****TEL: 0708 852647/851099**



# CONTROLLED ENVIRONMENT SYSTEM



Sinclair User  
Classic Award

## ICE The complete icon based desktop system for the Sinclair QL.

ICE comes on EPROM cartridge that plugs into the cartridge ROM port at the rear of the QL.

ICE uses next to no user RAM! ICE is always available to the user instantly no need to load from microdrive or disk ICE is fully compatible with the Psion™ applications and most QL commercial software ICE is fully compatible with Superbasic programs and can be called from Superbasic ICE is fully compatible with microdrives, disk drives and RAM disks ICE can be used in conjunction with the cursor keys, a joystick or a mouse ICE is multitasking Boot into ICE or boot program TV/Monitor

ONLY £24.95

ICE makes all of the day to day housekeeping operations on your QL easy. ICE uses pictures (icons) to represent the functions and programs you are using. ICE is extremely powerful and can take action on multiple files, saving you typing commands over and over again. Most of all, ICE is very easy to use and can be managed by almost anyone!

ICE complete system £59.95

ICE SYSTEM PROGRAMS (These programs will only work with ICE)



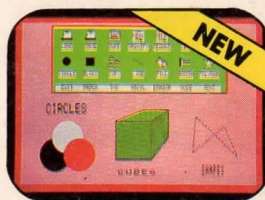
ICE Toolkit is a library of extensions to Superbasic that allow you to use many of the ICE features in your own programs. Mouse cursor, pop-up menus, alert boxes, icons, in fact most of the ICE routines can easily be incorporated into your programs giving them that professional appearance.

ONLY £9.95



CHOICE is a powerful multitask editor that allows you to run several programs simultaneously. It can be used to multitask the four Psion packages as well as many others. Most important of all, CHOICE gives you direct access to ICE from other programs so that housekeeping need not mean leaving your chosen program. CHOICE comes with RAM DISK software, a name and address database for Archive and a Quill/Archive mailmerge facility.

ONLY £14.95



Artice is the ICE drawing program. Artice works in both TV and Monitor mode. Artice features freehand drawing with a full screen, choice of brushes, colour change, texture fill, magnify and reduce, pop-up and pull down menus, mouse style cursor, rubber, rubber band lines, circles etc, and many other features. It is fully multitasking and can be used with the CHOICE software if required.

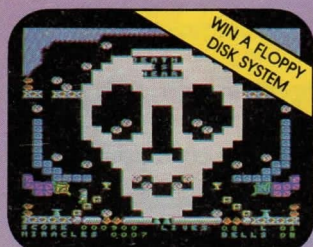
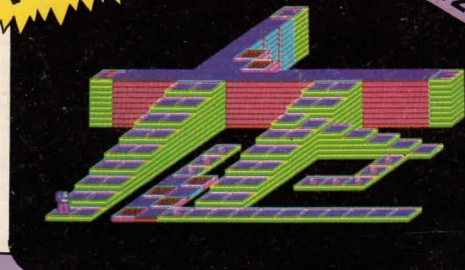
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## BJ in 3D Land

Amazing! BJ is off again, this time in a 3D maze that will pose a challenge to all. Over 75 screens of 3 dimensional action, as BJ battles against fireballs, energy zappers, lazars and even giant Chess pieces! Definitely a must!

NEW

ONLY £12.95



BJ The Return



Spook



Citadel



Zapper/Eagle

**BJ The Return** Drunx has died leaving BJ helpless in the caverns. Good Heavens Above!! Matilda the magic fairy has agreed to let BJ go providing he collects all the miracles from the caverns. A formidable task awaits you as you join BJ in this mega sequel to QL Caverns

ONLY £10.95

**Citadel** Unravel secrets of a giant city as you steer your craft through over fifty screens of danger and excitement. Superb value for money.

ONLY £9.95

**Spook** This is one of the best muncher games we have seen on a micro! Full features include multiple screens, fruits, sliding doors, swing doors and much more! Joystick/cursor/sound.

ONLY £10.95

**Zapper/Eagle** Two great machine code QL games for the price of one! Zapper the snappy arcade game is now joined by "Defender" style eagle.

ONLY £9.95

**Our Software Success Means Lower Prices for YOU**



**Joysticks** for Super Smooth Action. Suit all games and ICE. **Sureshot QL £19.95** The ultimate in Control. **Quickshot QL £12.95** Standard. **QL Convert Lead** for Atari Joysticks **£5.49** \*£1 Discount if purchased with program.

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<input type="checkbox"/> CHOICE	£14.95 + \$1.00 P&P	<input type="checkbox"/> BJ in 3D Land	£12.95 + \$1.00 P&P
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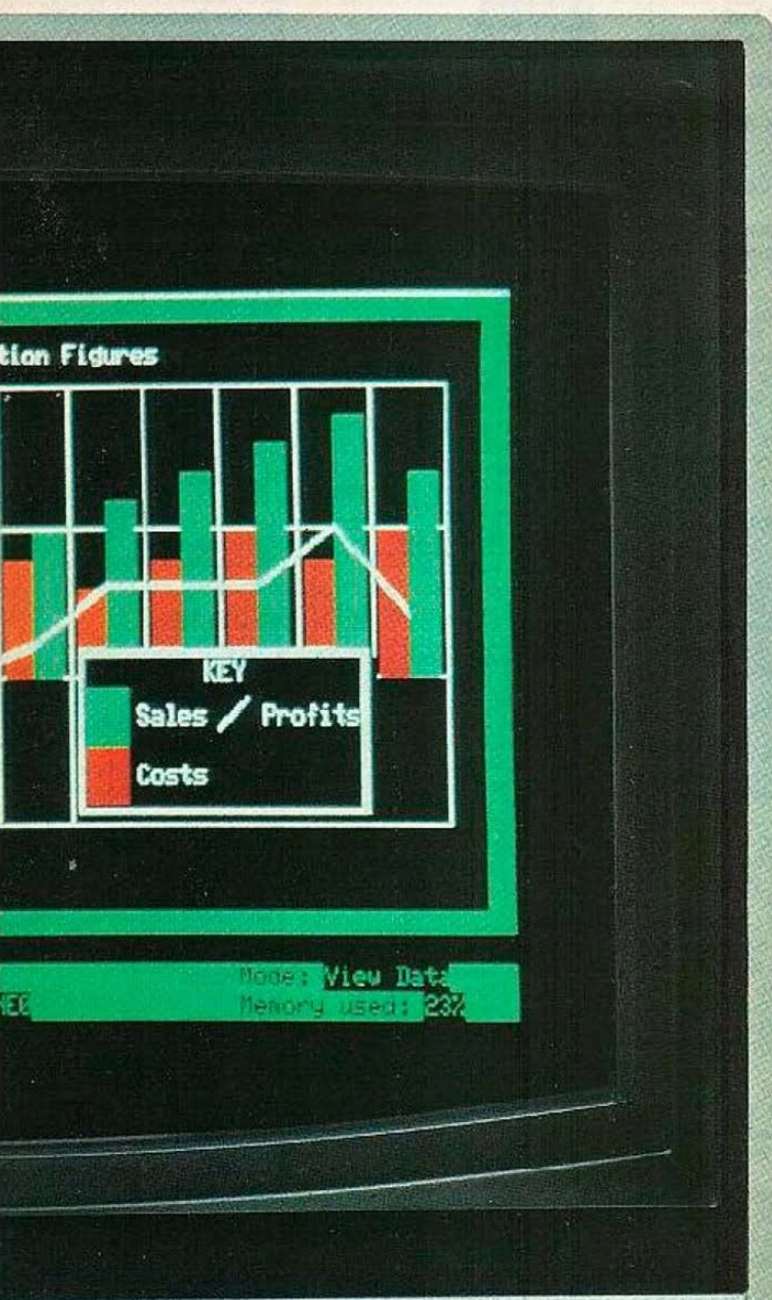
Credit Cards — phone 0708 851099





# New-Sinclair QL

## There's no comparison chart, b



The Sinclair QL is a new computer.

Not just a new Sinclair computer, but a totally new sort of computer – nothing like it exists anywhere.

It's not just a bit better than this, or a bit cheaper than that – it's a computer that's very hard to compare with anything. Just check the features below – and if you don't agree, take up the challenge at the end of the advertisement.

If you do agree, there's only one course of action you can take... get yourself a Sinclair QL at the earliest possible moment.

### The Sinclair QL has 128K RAM. Big deal?

Several micros offer 128K RAM, or more, as standard. The 'What Micro?' table for December 1983 lists over 50 of them – but 40 of the 50 micros listed cost over £2,500!

The Sinclair QL offers you 128K RAM for under £400, and an option to expand to 640K. That's a lot of bytes to the pound!

### The Sinclair QL has a 32-bit processor. Who else?

Under £2,700, nobody. Even the new generation of business computers, such as the IBM PC, are only now beginning to use 16-bit processors.

At prices like this the Motorola 68000 family – widely regarded as the most powerful microprocessors available – will remain a luxury.

Yet with the Sinclair QL, the 32-bit Motorola 68008 is available for less than £400.

You can also be sure that the QL will not become outdated. 32-bit architecture is future-proof.

32-bit processor architecture, 128K RAM, and QDOS combine to give the QL the performance of a mini-computer for the price of a micro.

### Exclusive: new QDOS operating system

No competition! QDOS sets a new standard in operating systems for the 68000 family of processors, and may well become the industry standard.

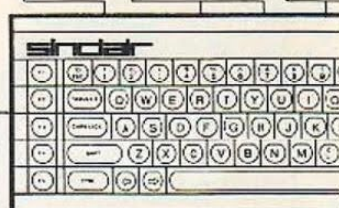
QDOS is a single-user, multi-tasking, time-sliced system using Sinclair's new SuperBASIC as a command language.

One of its most significant features is its very powerful multi-tasking capability – the ability to run several programs individually and simultaneously. It can also display the results simultaneously in different portions of the screen. These are features not normally available on computers costing less than £7,000.

### Eleven input/output ports

QL ROM Cartridge slot

2 x Joystick ports 2 x RS-232-C



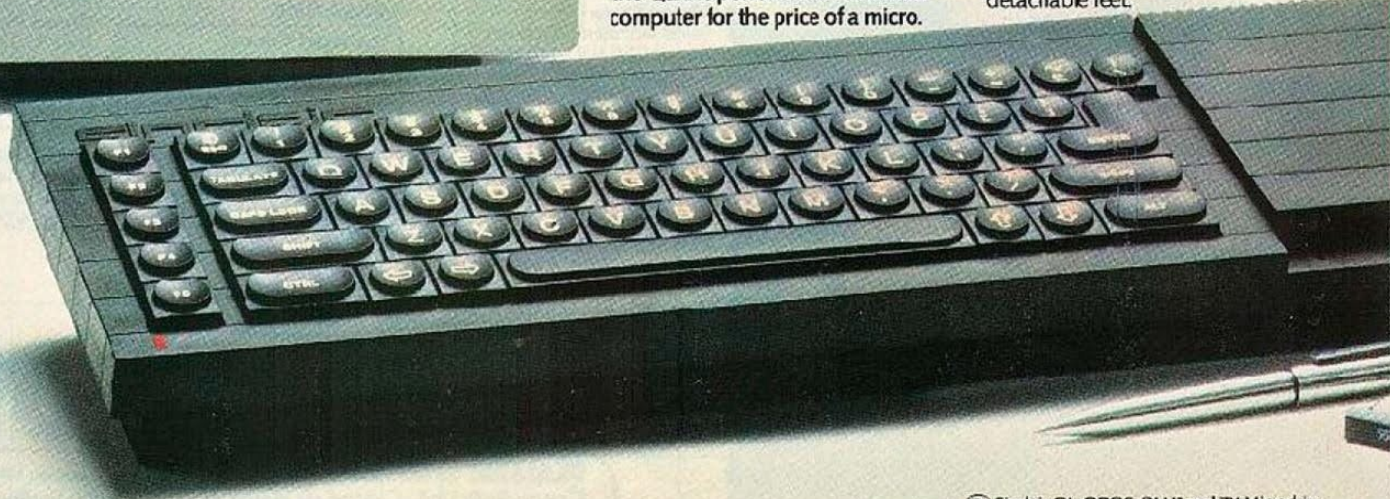
Expansion slot

### New professional keyboard

The QL keyboard is designed for fast input of data and programs.

It is a full-size QWERTY keyboard, with 65 keys, including a space bar; left and right-hand shift keys; five function keys; and four separate cursor-control keys – key action is positive and precise.

A membrane beneath the keyboard protects the machine from dust (and coffee!), and for users who find an angled keyboard more comfortable, the computer can be raised slightly at the back by small detachable feet.





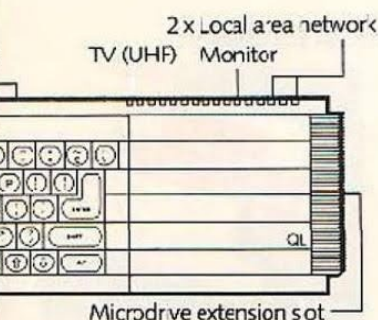
# £399

# Because there's no comparison!

## Advanced new friendly language – Sinclair SuperBASIC

The new Sinclair SuperBASIC combines the familiarity of BASIC with a number of major developments which allow the QL's full power to be exploited.

Unlike conventional BASIC, its procedure facility allows code to be written in clearly-defined blocks; extendability allows new procedures to be added which will work in exactly the same way as the command procedures built into the ROM; and its constant execution speed means that SuperBASIC does not get slower as programs get larger.



## Two 100K microdrives built in

The Microdrives for the Sinclair QL are identical in principle to the popular and proven ZX Microdrives, but give increased capacity (at least 100K bytes each) and a faster data-transfer rate. Typical access speed is 3.5 seconds, and loading is at up to 15K bytes per second. The Sinclair QL has two built-in Microdrives. If required, a further six units can be connected.

Four blank cartridges are supplied with the machine.



## Included – superb professional software

The suite of four programs is written by Psion specially for the QL and incorporates many major developments. All programs use full colour, and data is transportable from one to another. (For example, figures can be transferred from spreadsheet to graphics for an instant visual presentation.)

### Word-processing



Certain to set a new standard of excellence, QL Quill uses the power of the QL to show on the screen exactly what you key in, and to print out exactly what you see on the screen.

A beginner can be using QL Quill for word-processing within minutes.

QL Quill brings you all the facilities of a very advanced word-processing package.

### Spreadsheet



QL Abacus makes simultaneous calculations and 'what if' model construction easier than they've ever been. Sample applications are provided, including budget-planning and cash-flow analysis. QL Abacus allows you to refer to rows, columns and cells by names, not just letters and numbers. Function keys can be assigned to change a variable and carry out a complete 'what if' calculation with a single key-stroke.

### Business graphics



QL Easel is a high-resolution colour program so easy to use you probably won't refer to the manual. It handles anything from lines, shaded curves or histograms to overlapping or stacked bars or pie charts. QL Easel does not require you to format your display before entering data; it handles design and scaling automatically or under your control. Text can be added and altered as simply as data.

### Database management



QL Archive is a very powerful filing system which sets new standards using a language even simpler than BASIC. It combines ease of use for simple applications – such as card indices – with huge power as a multi-file data processor.

An easy-to-use labelling facility means that you don't have to ask for your file by its full name – a few letters are enough.

## New – the Sinclair QLUB

The QLUB is the QL Users Bureau. Membership is open to all QL owners. For an annual subscription of £35, QLUB members receive one free update to each of the four programs supplied with the QL, and six bi-monthly newsletters. Sinclair has also made exclusive arrangements for QLUB members to obtain software assistance on QL Quill, Abacus, Archive or Easel by writing to Psion.

## The Sinclair QL challenge

If you're seriously considering any other computer, post the coupon for a blow-by-blow comparison. We'll take a published comparison chart for the machine you're considering (not one we've created ourselves) and give you the Sinclair QL figures, detail by detail.

## Take action today!

### To order by mail

– complete the coupon and send it to the FREEPOST address below. For credit card holders it may be possible to extend your credit limit. Full details will be sent when we acknowledge your order.

### To order by telephone

– phone Camberley (0276) 685311; – have your credit card (Access, Barclaycard, Trustcard) number ready. It may be possible to extend your existing credit limit. Please ask our telephone staff for more details. **Please do not use this number for other enquiries.**

### For more information

Phone Camberley (0276) 686100, or use the coupon to get a QL brochure. Due to demand, delivery may take more than 28 days. Your order will be acknowledged immediately with an expected shipment date. Remember that Sinclair offers a 14-day money-back undertaking.

Send to: Sinclair Research Ltd, Computer Division, FREEPOST, Camberley, Surrey, GU15 3BR.

Qty	Item	Code	Item Price £	Total £
	Sinclair QL Computer	600C	399.00	
	QLUB membership (one year)	£100	35.00	
	Postage & packing (any order over £390)	£995	7.95	

Please tick the appropriate box-

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☐ Please send me a chart comparing the Sinclair QL computer with a \_\_\_\_\_

☐ Please send me a Sinclair QL brochure





	AMSTRAD	BBC/B	CBM 64	EINSTEIN	SPECTRUM	QL
CLUEDO			*		*	
MONOPOLY		*	*	*	*	
SCALEXTRIC			* †			
SCRABBLE	*	*	*	*		*
RRP cass	9.95	12.95	12.95		9.95	14.95 (cart)
disk	14.95	14.95	14.95	15.95		

\* Available Now! † CBM 64 Scalextric, £9.95 (cassette)

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QL

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Software by...

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# AREA RADAR CONTROLLER

**PRICE**  
**£10.95**  
*includes VAT,  
postage and packing*

SINCLAIR  
for the **QL**



Please send me AREA RADAR CONTROLLER on  
microdrive cartridge for the QL

Name .....

Address .....

QLU3

Please make cheque or postal order payable to  
Shadow Soft and send to:

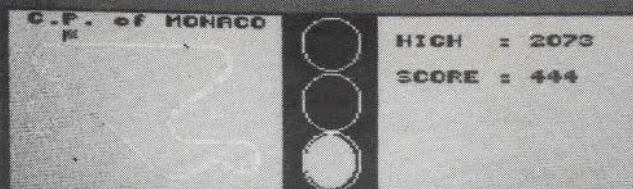
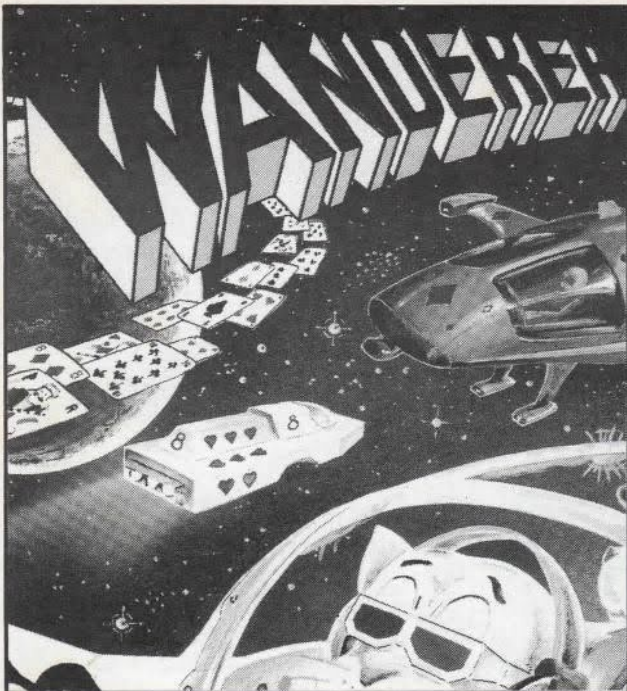
**Shadow Soft, 70 Gooseacre, Cheddington, Near  
Leighton Buzzard, Beds. 0296 668740**

**A fascinating game and  
simulation. Control up to 69  
aircraft in a busy air traffic  
zone which includes 2 airfields  
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**VERY ADDICTIVE —  
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**VROOM** – A new challenging car race for the QL with fast colour graphics and real racing circuits!

**PYRA  
SOFT  
PRES**

For the first time, a game which uses the full power of the QL spatial effects, combined with fast animation. The object will leap out of the screen

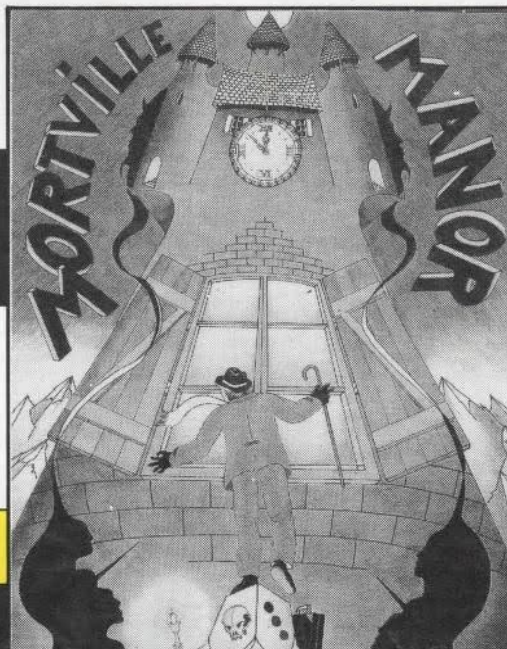
"This is certainly another notch up for QL software and an excellent start for Pyramid".

*Popular Computing Weekly*

29 March – 2nd April, 1986

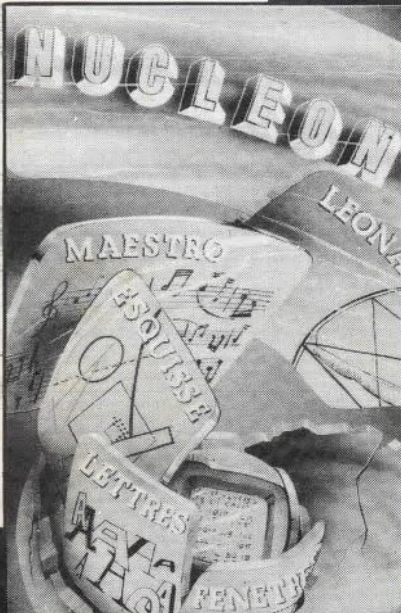
Sinclair User Classic

★★★★★



Begin your investigation in a setting consisting of 85 full colour screens. Beware the greatest danger of its deadly charm; a 'calm' in the eye of the storm. The first real graphic for the QL!

Supplied on two Microdrives



#### A valuable "Programming Assistant"!

This software comprises a suite of programs and tools (on two microdrives), designed to reduce the labour involved in producing professional results in your own creations. The four main programs all generate AUTOMATICALLY their own SuperBasic programs.

**Compact Draw** – Superb drawings, created and edited on screen. When you have finished, a SuperBasic program is generated, that will re-draw the picture! Includes all the features you would expect from a professional design package.

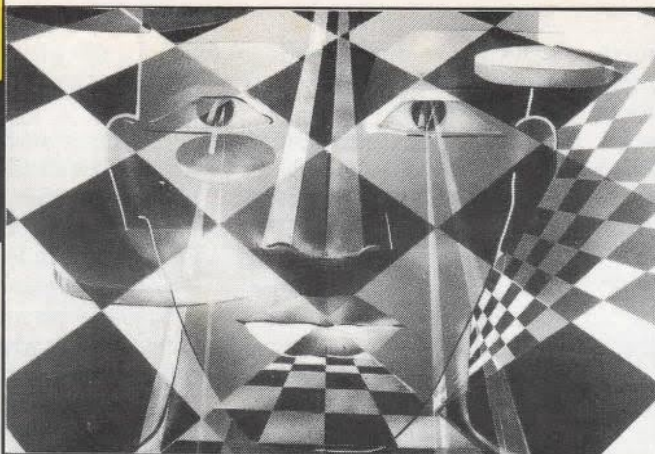
**Font Definer** – A very easy-to-use font definer, that allows you to design all types of new character sets for the QL.

**Windows** – A utility that will give your programs a smart professional look, by custom designing your screen-display. Create and adjust windows on-screen, anywhere, any size, any colours, shadows, borders, etc.! This program is icon-driven for ease of use.

**Maestro** – Want to give your programs a little more musical appeal? Finding the unpredictably tricky BEEP command more trouble than it's worth? Maestro could be the answer. Features a two octave pitch range, icon-driven composition, notes displayed on standard musical staves, functions of insertion, deletion, etc.



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9 levels of play. Your Move! Watch out...



QL-Peintre combines the best of all worlds:  
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Textures

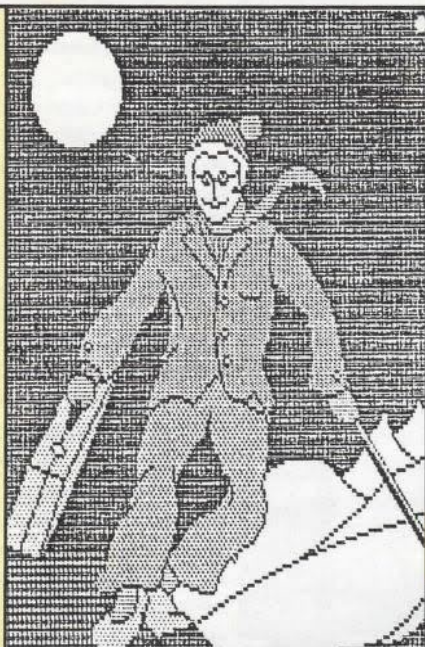


Eraser

The best value-for-money graphics package  
for the QL!

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# The Dark Side of the Moon



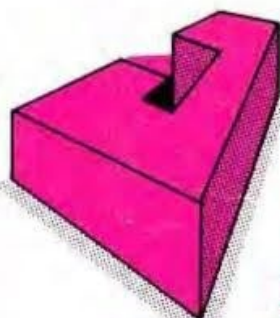
## A NEW QL MEGA-TEXT ADVENTURE

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It includes an extensive vocabulary, over 50 objects and a number of intelligent characters capable of carrying out tasks.

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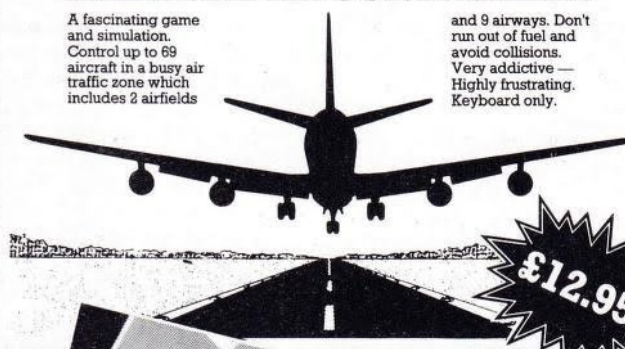
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An arcade adventure with extra large detailed graphics. Guide Nurse Gray around St Spooks Hospital, avoiding randy doctors and Paranoid Pete, the forensic flu bug. Pick up and use whatever objects you can find in your quest for the Golden Prescription. Keyboard or joystick

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## PAINT MASTER

A Graphics Package and Mini-Adventure. Keyboard or joystick.

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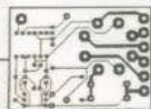
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Minimum system requirements: 512K expansion and 1 disc drive.

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# "QUEST -THE ADVENTURE" IS NOW PLAIN SAILING ON YOUR QL

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To order, send a cheque or postal order for £14.95 made out to:  
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Uncharted ocean, the final frontier. These are the voyages of the Sailing Ship "Adventurer". Its mission: to explore strange new desert islands; to seek out new treasure and crewmen; to boldly go where no computerised sailing ship has gone before.



"Quest - The Adventure" is a graphics adventure game for the QL, structured to present a series of increasingly difficult challenges as you strive to amass loot among the uncharted islands of a shark and cannibal infested sea, avoiding marauding buccaneers and natural hazards as you navigate to and from your home port.



- Supplied on a single microdrive cartridge
- Single-keystroke controls for sails, anchor, oars, search parties, cannon and direction
- Variables include wind speed and direction and crew morale
- Constantly changing cartography - never the same game twice
- Commands and help messages always available
- Game status can be saved and restored

quest

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# ...BLACKJACK... the great new computer card game for the QL from QUEST

At only £19.95  
it won't bust the bank

Blackjack from Quest casts your QL as a laconic casino croupier. In the game, perhaps more familiar as Pontoon, your objective is to score as close to 21 as possible without going over, while your QL, as the Banker, attempts to call your bluff and keep your stake.

Each and every rule and possible permutation of the game of Blackjack is

incorporated into this QL version, supplied on a single Microdrive cartridge and featuring attractive, high resolution colour graphics.

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quest

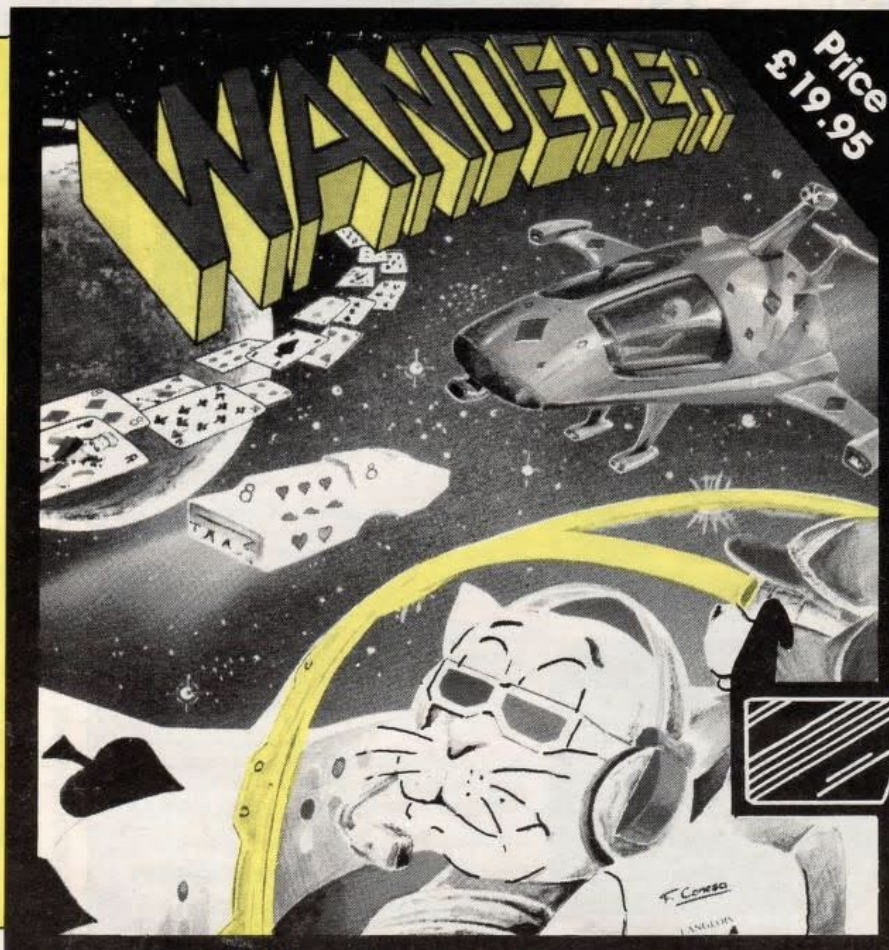
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"The best up  
and coming game  
for the QL:  
Sinclair User March 1986

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For the first time, a  
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animation. The  
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supplied with the  
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RIO PROMOTIONS LTD. Dept QL, 28 Waverley Grove, London N3 3PX. Tel: 01-349 2764  
TRADE ENQUIRIES WELCOME



## ★★★★★ The Wanderer

CULT GAMES are unheard of on the QL, but I've got a feeling that state of affairs is likely to change when *The Wanderer* hits the screen.

I've seen 3D glasses – but only *The Wanderer* displays with their strange conglomeration of objects floating through space tell of the miracles to come. Bicycles spin past, pentagons twist and turn, and cards float lazily towards infinity.

Press Enter and the space map squares are blank and represent sectors. The other squares represent worlds on which you can play poker for energy and shield power, and gateways into other galaxies.

The plot revolves around some nasty looking moggies – who are on the warpath, destroying everything they find in their path through space. The 3D perspective makes it difficult to destroy them. If you clip only the side of one of their space crafts you might get hit by floating debris, followed by a venomous attack from their laser guns.

If you were hoping for a version of *Elite* on the QL, *The Wanderer* falls far short. Although there are many types of feline battle cruiser, including one which looks like a flexi-lamp complete with domed shade and stand, the planets on the star map do not have their own economies – the ideal is not to trade.

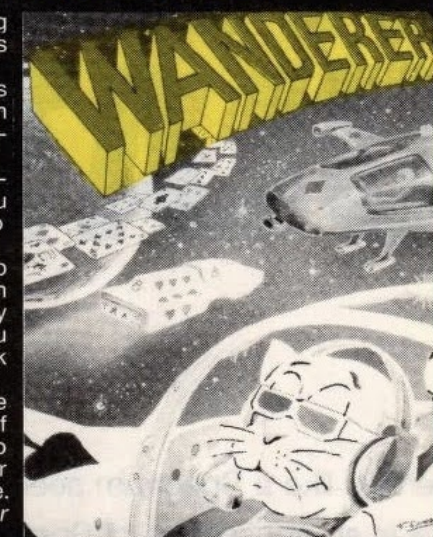
You must gamble at the poker tables – like Han Solo in *Star Wars* – and blow everything out of space.

Despite the lack of sophistication in plot, *The Wanderer* is the only game worthy of the arcade tag on the QL. The 3D graphics are spectacular and at times you will feel as if you are about to fall into the screen.

The transition between star systems initiated from the star map ridicules those industry pundits who say that if you want fast graphics on the QL you are flogging a dead horse. When you enter space warp your craft rushes through space. The stars swirl in a vortex and you will feel very, very sick.

Pyramide, a French company, has done wonders with its first product for the British market. Its superb packaging and documentation complement a program which shows its author to be very talented.

John Gilbert,  
Sinclair User, April 1986  
Page 89.



"undoubtedly one of the best  
games yet released for the QL,"  
ZX Computing Monthly - May 1986

## PYRAMIDE

Attention all  
QL Owners!  
The New Pyramide  
Programs just released:

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# QL SUPER BACKGAMMON



FOR THE SINCLAIR QL COMPUTER



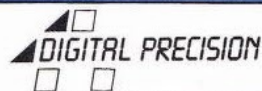
An excellent program for beginners and experts at the game. Variable playing strength, full on-screen instructions, obeys all the rules of backgammon. Randomising features ensure a different game each time — trillions of possibilities! Fast response

speed — plays an aggressive, challenging and entertaining game. Dual clocks; 3 Playing Modes; Auto-play (Computer vs Computer); Normal (Human vs Computer; Supervisor (Human vs Human). Rules of Backgammon both in booklet and on-screen, in Quill document. 4 playing levels. Computerised dice thrower coupled with override option to allow you to throw real dice. Very easy to operate.

**£15.95** COMPLETE WITH RULES OF BACKGAMMON

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## HERE WE GO

Can you get to the F.A. Cup Final at Wembley Stadium safe and sound, things may sound simple at first but wait until you really get going and you will notice that everything isn't plain sailing. Here We Go is a large text adventure with atmospheric location descriptions and many brain teasing puzzles which will keep you addicted for many moors.

**Only £14.00**



## THE GEE-GEE SYSTEM

If you want a horse racing predictor which is quick and easy to use then The Gee-Gee System is the one for you.

TGGS lists the top three horses in each race which are most likely to come first, second and third.

Excellent accuracy — There is nothing quite like this for the QL.

TGGS takes everything out of a daily newspaper into consideration but the information is entered in a way which makes TGGS quick and easy to use unlike some horseracing predictors.

For Example: A typical 20 horse race can easily have all its needed information entered into the program in less than half an hour. Less than quarter an hour when you have got used to the program (which doesn't take long).

Instructions for TGGS are supplied on disk/m drive as a quill file.

**Cheap but not nasty at only £13.00**



## QUIZ MASTER

A fast and furious addictive quiz game with hundreds of questions on various subjects. Quiz Master can be played against the computer or an opponent. All questions are compressed and loaded into RAM along with the game, so Quiz Master does not need to access the microdrive for more questions again after it has been loaded.

The questions range from easy to difficult which makes Quiz Master suitable for ages 9 to 90.

Unlike our other software Quiz Master it's only available on microdrive at the moment, but if desired you can easily transfer it to disk as a stand alone copy.

**Only £15.50**

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## QL GAMES



**£18**



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Are you really an ace? Sure? Prove it! . . . No abstract aliens, but airplanes, balloons, birds and other strange or absurd things flying in the sky . . .

The aim of the game is to become the General. Very funny! 20 levels, machine code, compatible joystick.

### GWENDOLINE

is the name of your fiancée, captive in a dungeon of the haunted castle. You, the hero, try to discover her; find the keys, eat ham, apples . . . (you are human, no?) and run! Beware of the bottles of wine! And what happens when you reach GWENDOLINE? See yourself . . . 38 screens. Very nice graphics, machine code, compatible joystick.

**SAVE £5.00 — Gwendoline with Baron Rouge £30 only**  
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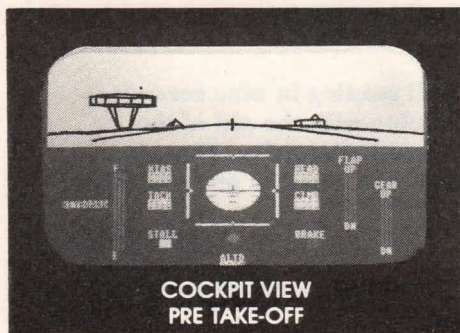
**SINCLAIR**  
APPROVED

# QL FLIGHT SIMULATOR

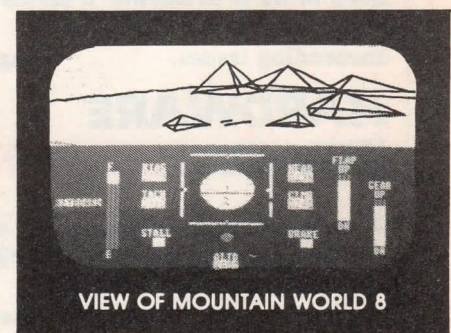
Not a game but a real full feature flight simulator for the Sinclair QL written by an Aeronautical Engineer for pilots and student pilots alike. QL Flight (QLF) is a view orientated flight simulator which means you can actually view your surroundings. First set up the weather in each of the nine worlds selecting wind speed, wind direction and cloud ceiling. Select your starting world then your QL moves to the cockpit view!



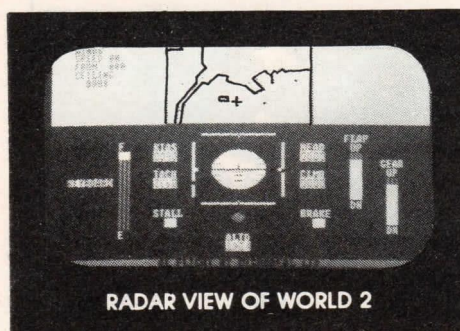
**REALISTIC  
MOVING  
GRAPHICS**



**NINE DIFFERENT  
WORLDS TO  
FLY AROUND**



**LAND - RE-FUEL  
THEN TAKE OFF  
AGAIN**



Once in the cockpit with your seat belts firmly done up start the engine, lower the flaps, increase the revs and with releasing the brakes your actually moving down the runway!! As you clear the runway the scene of the world your in, comes into view! Bridges, mountains, power lines, towers, everything is there in this realistic simulation. You can even fly from one world into another! Imagine taking off and flying under a power line then into a treacherous mountain world and landing between 2 mountains, re-fuel, take off again and into another world with a low cloud ceiling, now its time to switch to QLF's unique "RADAR" view. QLF features all the major instruments including artificial horizon, altitude, compass climb, revs - plus all the usual aircraft components - flaps - landing gear - trim and rudder - ailerons.



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# PIRACY

THE GRANDMASTER OF ETERNITY SERIES



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The 'GRANDMASTER OF ETERNITY SERIES' is a family of games linked together to form the largest epic in the history of games. It will take you in stages from the dawn of man to the ultimate destination in time and space.

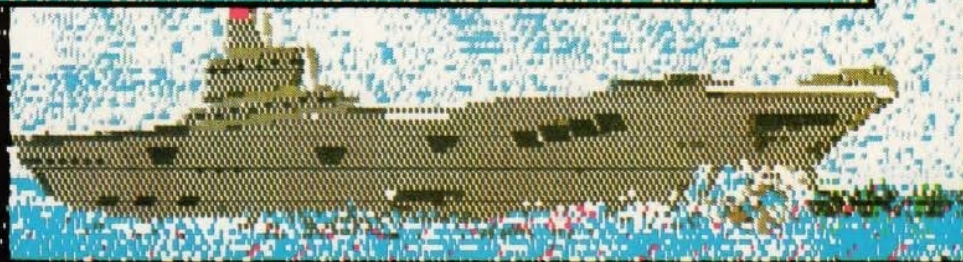
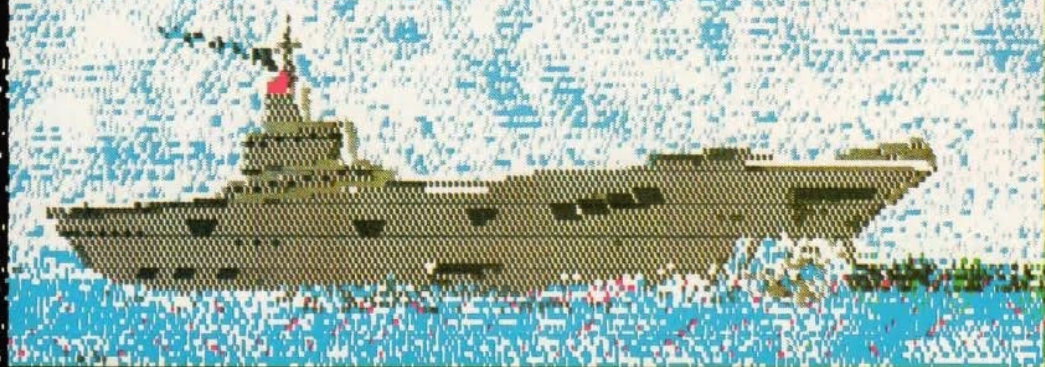
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£19-95 Master-games	(128K QL)	Including:
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FROM MASTER OF THE UNIVERSE SERIES



Designed by an ex MOD programmer, WARSHIP is a highly addictive military strategy game set in the first half of the 20th Century. Your aim is to defeat your opponent by evolving technology and taking over territory. As your technical excellence increases so does your strength. The game can be configured with a variety of modes and options to play against the computer, or with other players in a network. Features include: downloadable maps, fleet, and extension modules; 4-way scrolling 'hex-grid' map; Printer dump; 2-level map zoom; Free 2-user licence for 2 QL's; CDS-NET Network option.

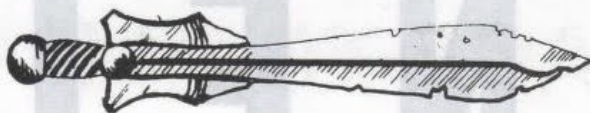
The 'MASTER OF THE UNIVERSE' series is a family of games linked together to form the largest epic in the history of games. It will take you in stages from the dawn of man to the ultimate destination in time and space.

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*the talisman* — is the new role simulation from PCBS.

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The Talisman is not a conventional adventure game nor an arcade game; but a combination of both, with elements of strategy and realism. It is unique since the combination is randomly generated each time the game is played — resulting in the unusual situation where the game's author can play it too — incidentally he has yet to find the Talisman!

Throughout the quest you could be confronted by over one hundred different types of creatures — and use over one hundred different magical aids. This, coupled with the intricate game system and random generation facility, means that it can only be played on expanded machines. The game comes with a comprehensive manual detailing magical items, creatures and information on the four character types available.

Finally we must warn you that this game is completely addictive; our playtesters have indulged in all night sessions, only stopping for calls of nature!

No-one has finished the game yet — will you be the first? The Talisman is THOR compatible, and is available in 3.5 inch disc or on two micro-drives — priced £19.00

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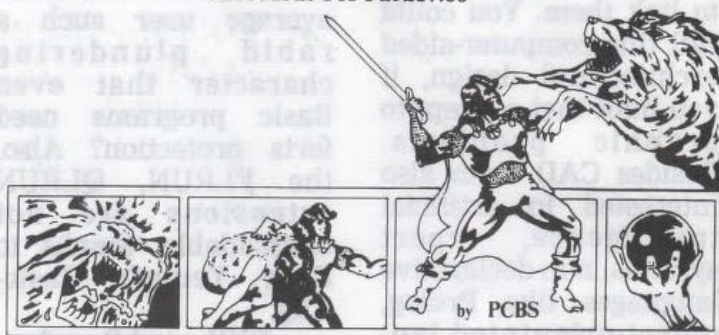
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The "Heart of Gern" is the first of a challenging series of adventure games devised to test even the most battle scarred adventurer. Set in the magical fantasy world of the 'Princelands' you Tirac must continue the quest for the black jewel which

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take more than luck to succeed. It will take skill, determination and above all rational thinking. Will this be the dawn of a new dark age or can the evil brotherhood be thwarted? The fate of the 'Princelands' is in your hands.

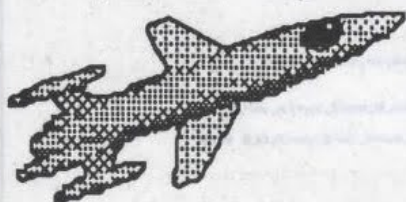
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The programme will run on a basic 128K QL.

The comprehensive two user package includes an instruction manual, navigation aids, a selection of charts, Scenario Logs etc, and automatic free FT-Comm Club registration for 1 year.

Over a period of time the package will become available on other popular computers, the object being that any combination of two computers may be used.

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Set in a 1000 x 1000 square mile expanse of ocean within which there are two anchorages initially used by yourself and the enemy, and two neutral anchorages with repair/replenishment facilities.

It is a time of international conflict. Your shipping is being repeatedly harassed within these waters. The Government has declared a Total Exclusion Zone for this area. You have received a signal from Admiralty commanding you to take any necessary measures in order to enforce the Exclusion Zone and thus taking control of all anchorages.

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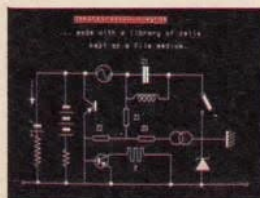


# PYRAMIDE



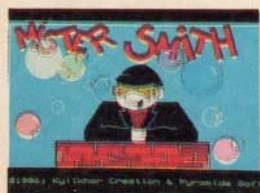
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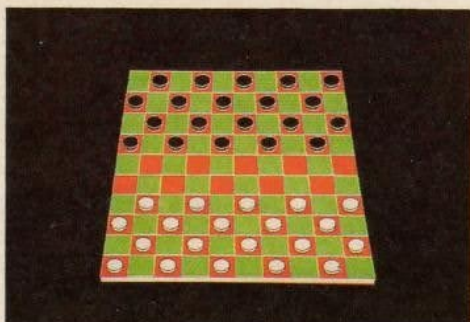
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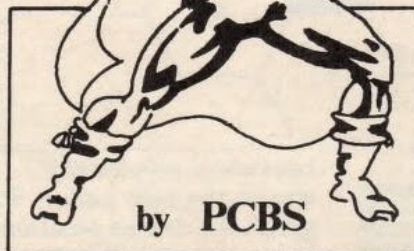
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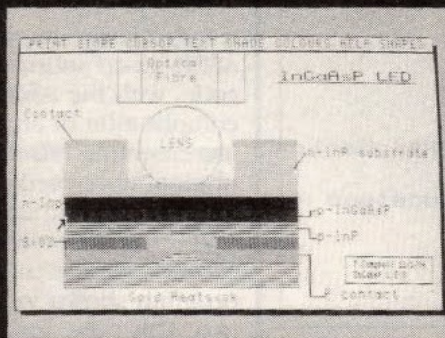
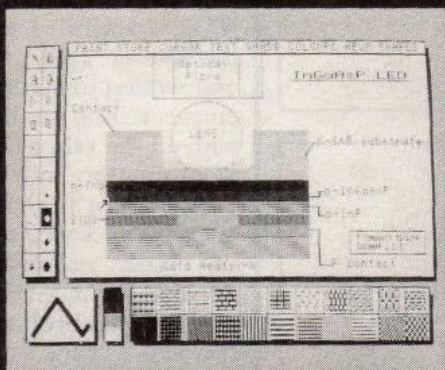
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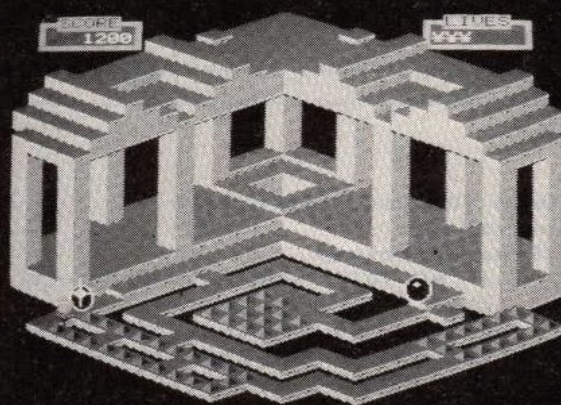
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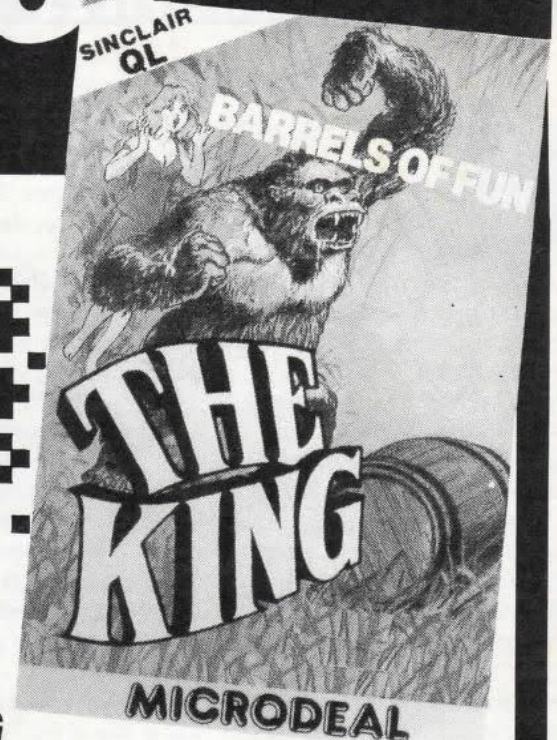
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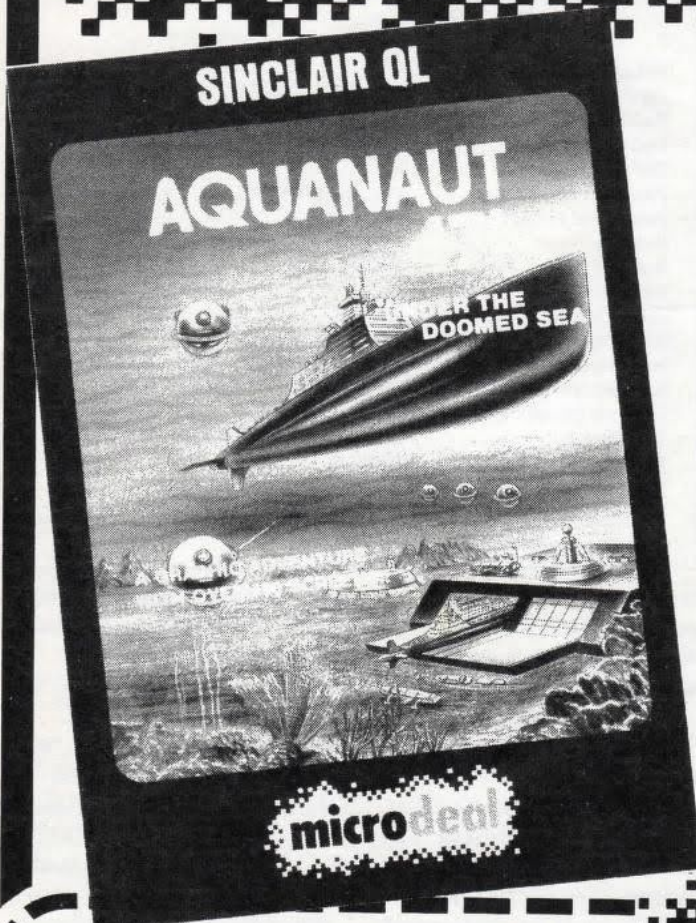
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by Stefan Kuhne

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GUARANTEED TO CONSISTENTLY BEAT ANY SPECTRUM OR COMMODORE 64 CHESS PROGRAM WHATSOEVER

NEW FOR 1985

- ★ Save Game & Program to Microdrive
- ★ On-screen clocks for tournament realism
- ★ Unique new way of setting hundreds of levels
- ★ All play within tournament time limits

### FEATURES

- ★ Unique new way of setting levels by time gives you total control with three different options: tell the computer to match your response times, give it a time limit to play to, or give it an average time to make its moves. And you can force it to play its best move found so far...
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Astronomer has everything in one powerful program... See the night sky of more than 1000 stars from any time or place on earth. Watch it plot the planets or draw in the constellations for you. See close-ups from the Star Atlas of 362 charts. Watch animated detail of our Solar System in motion and see how it changes with the months. Calculate everything needed for serious astronomy to a high standard of accuracy and produce your own tables to save having to buy them. Anything can be transferred to a ZX Printer.

### FEATURES

- ★ Comprehensive Manual with reference sections
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**THRILLING** command over the night sky from any time or place on earth  
**SERIOUS** tool for the amateur astronomer — with excellent manual  
*"For those interested in the night sky it should prove fascinating"*  
*"User friendly"*  
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FOR 48K SPECTRUM & SPECTRUM+

NEW FOR 1985

150 ROUTINES  
100% MICRODRIVE COMPATIBLE

With 150 ROUTINES and 100% MICRODRIVE COMPATIBILITY this has to be the ultimate Spectrum disks. It gives you the power to do everything you always dreamed of with your Spectrum in your own BASIC or MAC programs. Born of the earlier Supercodes (which themselves received 5 star reviews) we can claim confidence that we have packed absolutely everything into this State of The Art development. With Interface 1 it transfers easily to microdrive and is recognised by Sinclair as fully compatible. Needs no special knowledge to operate and comes with a comprehensive manual.

### FEATURES

- ★ Unique Access Program lets you INDEX/ LIST/TEST/TAILORED/RUN/RELOCATE/SAVE (to tape or microdrive with new or default name)/VERIFY automatically
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£12.95 48K SPECTRUM WITH EXTENSIVE MANUAL

## BRIDGE PLAYER 2

THE STRONGEST BRIDGE PLAYER YET

NEW FOR 1985



- ★ Play a realistic game of bridge against the computer
- ★ Computer can play as defender or declarer

At last, here is a program with everything the solo Bridge Player ever needed: The computer generates random hands, allows proper bidding in the ACCOL system including the Stayman and Blackwood conventions, and then IT TAKES YOU ON, playing both your opponents' hands. Every feature that can be packed into the Spectrum has been included in this program to give you a really satisfying and enjoyable game of computer Bridge.

### FEATURES

- ★ Versatile bidding routines give you a worthy opponent
- ★ Study your game: post-mortem facility allows re-bidding and replaying of any hand
- ★ You can review the bidding or play to previous tricks while playing a hand
- ★ Or input a hand or contract of your choice to test yourself
- ★ COMPREHENSIVE ON-SCREEN INFORMATION DISPLAYS: contract, tricks won so far, cards played in current and last trick, score
- ★ Option to BIAS THE DEAL to give you and your "partner" more high card points if you prefer to play as declarer

A REALLY STRONG OPPONENT FOR A REALLY GOOD GAME OF BRIDGE

BRIDGE TUTORS with full manual & set hands to teach you the game  
**Beginners £5.95 Advanced £5.95**  
**SPECIAL OFFER**  
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## PINBALL WIZARD

FOR COMMODORE 64 AND ANY SPECTRUM



Superb, colourful fast-action graphics and sound give this game the feel of a real arcade pin-table. Realistic launch, flippers, bumpers, high-score, bonus scores and freeball features. Be a Wizard!

*"I thought that a few minutes would suffice, and then found that a couple of hours had passed and I was still at it. Excellent. Pinball Wizard has a made."*  
 CRASH MAGAZINE

*"A brilliant idea that's totally absorbing and so addictive..."*  
 YOUR SPECTRUM

*"The display is well-designed and colourful and ball movement is very realistic."*  
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FRENCH language versions from our European distributor:  
 SEMAPHORE, CH 1283, La Plaine, Geneva, Switzerland. Tel. Geneva (022) 54 11 95  
**WANTED:** Strong and original programs of an intelligent nature for any of the above computers. Top royalties paid by this reliable company.

### OTHER PROGRAMS for 48k Spectrum

Toolkit/Utility - (ALL AT £9.95)	Classic Games	
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EXTENDED BASIC	Draughts (very strong program)	£5.95
SNAIL LOGO (Turtle graphics)	Backgammon (excellent)	£5.95
	Yatzee	£4.95
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**SPECIAL OFFER** any two of these invaluable programming aids for £17.95.  
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News from the world of  
Sinclair QL computing.

# QL NEWS



## One year old... and look how we've grown!

When we launched the QL last year, we knew we were starting a revolution.

For the first time, the serious computer hobbyist could afford the same power and performance as the professional computer user.

A year later, and the QL is more than a unique computer, it's the heart of a unique system.

And the next 12 months promise even more for QL owners... new software options, extra storage devices, printers, monitors...

Read on, and see how far we've come, and how much further we're going!





# NIGEL SEARLE

## Now it's the quantum leap for QL software and peripherals

Without doubt, the QL was the computer innovation of 1984. Launched to outstanding reviews, it soon gathered thousands of happy owners, and recognition from people like ICL, who have incorporated QL technology and its Microdrives into the new One Per Desk.

The quickest glance at the QL's specification shows what the fuss was all about...128K RAM, 32-bit processor architecture, 200K built-in mass storage, bundled software. They're features that would normally cost you three or four times as much!

But that's only half the story, because the QL is now the heart of a computer system, with a growing library of software...

As you'll see from these pages, 1985 is the year of the quantum leap for software and peripherals. Already there are no less than five QL languages together with special programs for software developers, a world-beating chess game... and much more on the way!

On the hardware side, there's a special QL monitor to make the most of that high-resolution 512 x 256 pixel display. There

are memory expansion boards, Winchester disk drives, printers, and low-cost Microdrive cartridges.

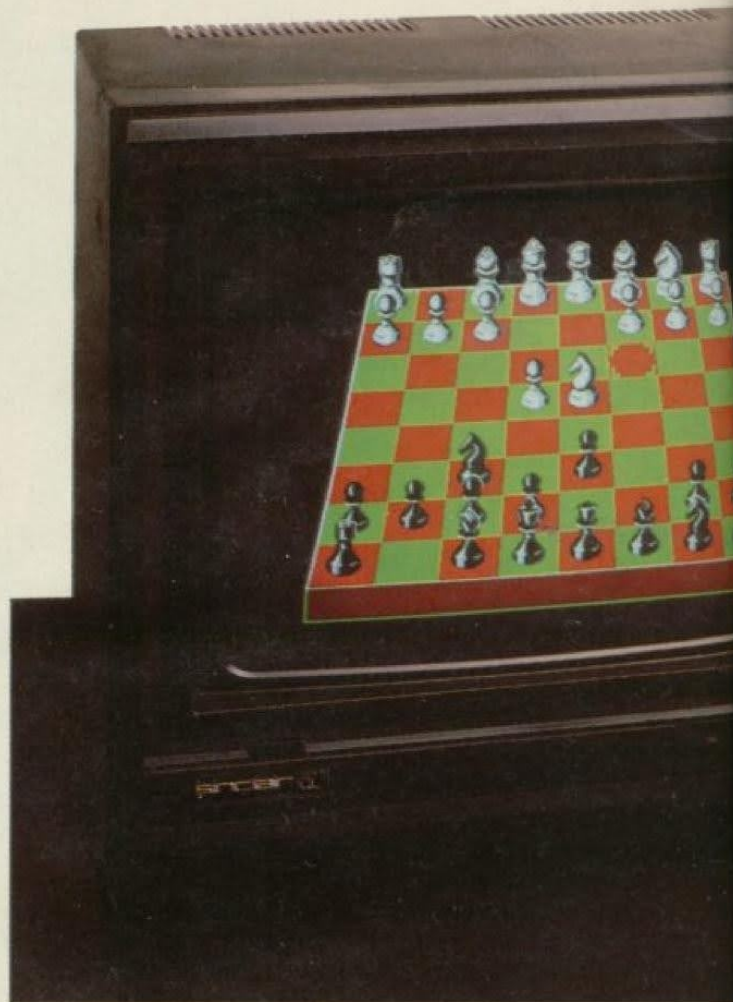
In fact, there's so much going on, we'll be running these regular Newsletters just to keep you in touch!

If you already own a QL, the next few pages will give you a taste of the exciting year ahead.

And if you don't... take a look at what you're missing. It should be all the persuasion you need!

Now read on...the quantum leap into serious computing starts here.

Nigel Searle, Managing Director, Sinclair Research Limited.



From sophisticated business packages to superb animated games... QL software makes the most of the computer's extraordinary specification.

## New QL Software

Utilities, languages, games and business packages...with more on the way!

Two things are now certain about QL software. First, there's going to be plenty of it. And second, it's going to set completely new standards for microcomputers...

At the moment, there are well over 100 software programs in development. And the first

software releases, shown here, demonstrate how exceptional the best QL software will be.

The QL already has five languages, superb programs for software developers, a top quality accounting package and in QL Chess it has its first game.

## QLUB: 10,000 members and growing!

QLUB is the special Users Bureau for Sinclair QL owners. There are now well over 10,000 QLUB members, and membership is growing all the time.

For their annual subscription of £35, QLUB members are enjoying a whole range of information and advisory services, exclusive offers and special discounts.

One of the most important QLUB benefits is the special news magazine, appearing six

times a year. The magazine provides a forum for QL owners to exchange views and keep in touch with all the latest developments.

Each issue is packed with updates on QL hardware and software, tips on applying the four QL Programs, and news of how other people are using the QL. QLUB members also receive a range of special discounts, with savings of at least 20% on selected software products.

Current special offers include:  
QL Chess for £14.95  
QL Toolkit for £19.95

QL Assembler for £31.95  
QL Cash Trader for £54.95  
Special subscription rates for Personal Computer News and QL User.







## The multilingual Sinclair QL

**BCPL** – a forerunner of C, BCPL has been described as a systems programmer's delight. In the words of QL User, this compiler is a 'brilliant compromise between a high-level language and a low-level systems language'. Whilst not for beginners, this is an essential buy for anyone with a good knowledge of systems programming. Complete with manual.

**Available from**  
**Metacomco – £59.95.**  
**Tel: 0272 428781.**

**LISP** – already well-known for its artificial intelligence appli-

cations, LISP is a powerful and versatile language. This is a sophisticated implementation of LISP, by one of its leading exponents, Dr Arthur Norman. This package features full QL graphics, and a full manual is supplied.

**Available from**  
**Metacomco – £59.95.**  
**Tel: 0272 428781.**



**Pascal** – probably the most popular high-level language of all. Pascal is particularly well-suited to structured programming, sophisticated data manipulation and algorithmic problems. Pascal interpreter complete with 87-page manual.

**Available from**  
**Computer One – £39.95.**  
**Tel: 0223 862616.**



**Forth** – this 'new generation' language is proving both popular and easy to learn. The program provides a full implementation of the latest Forth 83 standard with graphics and sound extension.

**Available from**  
**Computer One – £29.95.**  
**Tel: 0223 862616.**

**APL** – the compact mathematics-based interpreted language designed for scientists and mathematicians.

APL keyword interpreter complete with manual.

**Available from**  
**MicroAPL – £99.95.**  
**Tel: 01-622 0395.**

## Programmer's packs

**QL Assembler** – two programs operating in tandem. The first is a full-screen editor for creating and altering program files. The second, a Motorola-format compatible 68000 assembler which converts source files written in M68000 assembly language into machine code files which can run on the QL.

Both assembler and editor are written in machine code and can be multi-tasked with SuperBASIC, so you can switch

between editor, assembler and SuperBASIC instantly.

**Written by GST Computer Systems – £39.95.\***

**QL Toolkit** – a programmer's toolkit with over 70 programs, and extensions to SuperBASIC. Most are linked to SuperBASIC initially and can then be used from commands or from within a program. Enhancements include printer spooling (print a file while running a SuperBASIC program); improved file access (with full random input/output command); job control (allows management of multi-tasking programs including the ability to display, alter priorities, and delete jobs from the QL); and SuperBASIC screen editor.

**Written by Q Jump – £24.95.\***

## World-beating chess!

**QL Chess** – fresh from its victory at the World Microcomputer Chess Championship. This program sets a completely new standard for games software.

There's a high resolution display, animated 3-D graphics, and 28 levels of play from novice to champion. Features include an openings book of nearly 4000 moves, HINT and TAKEBACK functions that help you learn from your mistakes, and the option to play a human opponent or the computer.

**Written by Psion – £19.95.\***

## Software at work

**QL Touch 'n' Go** – a unique approach to learning touch-typing skills. The program is designed to give you mastery of the standard QWERTY keyboard in just 24 hours. With practice, you should soon reach 40 words per minute, with over 95% accuracy.

**Written by Harcourt – £24.95.\***

**QL Cash Trader** – a unique computerised book-keeping system for small businesses. The program provides a complete course in the principles of accountancy, and goes on to become an essential aid in the day-to-day running of a business. Complete with comprehensive manual.

**Written by Accountancy Software of Torquay – £69.95.\***

**\*This title is available from Sinclair Research on 0276 686100, and selected Sinclair stockists nationwide.**

## Psion trouble-shooting service

All QLUB members can obtain special assistance from Psion on using the QL Quill, Abacus, Archive and Easel programs supplied with the computer. Psion will normally answer any queries within 48 hours.

## Free updates

QLUB members will also receive one free update of each of the four QL Programs – incorporating many new developments.



# New QL Hardware

## An industry is born

From the moment of its launch, the revolutionary QL attracted massive interest from all quarters.

In one area, the interest quickly turned to action, as high-tech hardware manufacturers realised the immense potential of the QL for vast expansion, for system development and for

widespread networking. Already the list of peripherals for the QL is very exciting – and lengthening by the day!

Here, we've covered many of the latest, most important developments.

As more appear, be sure to keep in touch with QL News!



## The dedicated Sinclair Vision QL monitor

Once you see the incredible graphics capabilities of the QL you may decide an ordinary TV just can't do them justice.

If that's the case, a high-resolution monitor is needed. (And if you're creating presentation-quality charts, for example, it's quite essential.)

The new Vision QL monitor is specially designed for the computer by Kaga Electronics, with full support from Sinclair Research.

So it exploits the QL's maxi-

mum 512 x 256 pixel resolution to the full, with a pin-sharp 85 column display.

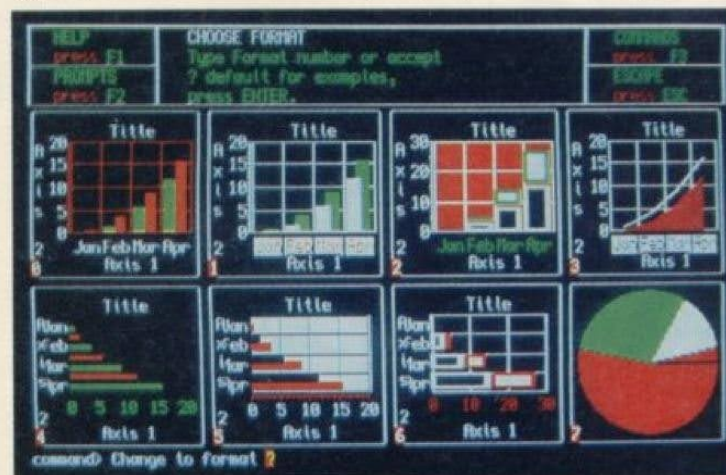
It's also specially styled to suit the QL – in looks, and in use. There's a 12" non-glare tube, and etched screen to diffuse reflections.

So the display is bright, sharp, *much* easier to look at... and invaluable for those late-night programming sessions!

And like the QL, the Vision monitor is designed with space in mind: it has a compact foot-

print of just 12½" by 15" – no more than a typical portable typewriter.

It's available from MBS Data Efficiency on 0442 60155 and selected Sinclair stockists.



The QL's superb graphics capabilities – as demonstrated by the Sinclair Vision QL monitor.



# Microdrive cartridges. Now only £1.99!

Microdrive cartridges are the QL's own unique storage media. Each stores up to 100K of information, on a cartridge no

bigger than a matchbox!

Over 500,000 cartridges are now being used throughout Britain. And QL Microdrives

themselves are standard equipment on the new ICL One Per Desk micro.

Now there's more good news for QL enthusiasts: from February 1, the cost of QL Microdrive cartridges are down from £4.95 to £1.99 each!



Sinclair Microdrive cartridges – up to 100K of programs and data on a medium so compact you can pop it into your pocket.

## Powerful hard-disk system

For the QL business user, the new Firefly QL Winchester disk will boost the QL's power in one huge leap.

Designed by Quest, it uses CP/M and offers all the benefits of Winchester technology: fast access, reliability, compact size and quiet operation.

With 7.5 Mb storage, the Quest Firefly is ideal for large databases such as stock or cus-

tomers lists. And at under £1,200, it represents exceptional value for money.

The Firefly will be available very shortly from Quest on 04215 66488.



Winchester hard disk drives supplement your QL's built-in mass storage.

## Interface options

The QL comes complete with two built-in RS-232C interfaces.

In addition, interfaces for Centronics printers are widely available from manufacturers such as CST, Miracle Systems and Sigma Research... with

prices from only £35.

And that's just the beginning. For attaching scientific and laboratory instruments to the QL, CST even offer an IEEE-488 interface, which can handle up to 16 connected devices simultaneously!



A Centronics interface slips discreetly into place.

## Expansion boards for up to 4 times more memory!

Also from Quest, a simple and inexpensive way to expand the QL's RAM: with memory expansion boards.

These compact units connect to the standard QL expansion port, using the QL's internal power source or, for larger boards, an external power source.

The units range from 64K and 128K RAM boards to massively powerful 256K and 512K RAM boards, so there's something for every user.



Compact expansion boards.

Prices start at £117, and the 512K board is a very cost-effective investment at just £587.

With affordable memory like this, the QL is more than a match for any other micro under £2,000!

# The spec behind the spectacle

**CPU – Central Processing Unit**  
Fast, powerful Motorola 68008 chip. A second processor, an Intel 8049, controls the keyboard, generates the sound, and acts as an RS-232C receiver.

**RAM**  
128K. Now expandable to 640K.

**ROM**  
48K.

**Operating system**  
Qdos – revolutionary single-user, multi-tasking windowing operating system.

**Storage**  
Twin built-in QL Microdrives. Up to 100K storage each – transfer rate, up to 15K per second.

**Keyboard**  
Full moving 65-key QWERTY, five function keys, four cursor keys.

**Language**  
Sinclair structured SuperBASIC.

**Application software**  
QL Quill – word processor  
QL Abacus – spreadsheet  
QL Easel – graphics  
QL Archive – database  
All four packages supplied with the QL.

**Interfaces**  
Two serial RS-232C interfaces, Microdrive expansion port (up to 6 may be added), ROM cartridge port, local area network, 2 joystick ports, RGB monitor and TV output.

**Text screen**  
Various modes – up to 85 columns by 25 rows on monitor. On TV, up to 60 columns.

**Graphics resolution**  
512 x 256 pixels (four colour),  
256 x 256 pixels (eight colour).

**Sinclair Research Ltd**  
Camberley, Surrey, GU15 3BR.  
Tel: Camberley (0276) 686100.

**sinclair**

**Where to find the QL.** The Sinclair QL is available at selected branches of Dixons, W H Smith, John Lewis Partnership, Currys, Greens in Debenhams and Ultimate, and larger branches of Boots, John Menzies and specialist computer stores nationwide.

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News from the world of  
Sinclair QL computing.

# QL NEWS

## The communications explosion takes shape!

Communications are now  
the most exciting, essential part of any computer.

In the past six months alone, over 150,000  
modems have been sold in the UK.

Now, the QL's own communications explosion is  
taking shape ... and it has the potential to make  
more of communications than any other micro!

Read on and discover exciting new ways to use  
your QL ... with the QL modem ... telephony  
unit ... and powerful interface options.





# DAVID KARLIN

## Why Q COM is everything you could wish for in communications.

The QL is now communicating – via Q COM! This exciting three-part peripheral presents QL users with a multitude of ways to exploit the world of communications.

Once connected to the QL, Q COM allows you to access the considerable number of phone-in databases, such as Prestel and QNet.

Q COM enables you to communicate with other computer users. Its facilities include electronic mail, data transfer from Microdrives and bulletin boards.

Through it you can link your QL to larger minicomputers. Q COM has full capability in this area, and allows the QL to talk to powerful mainframes.

Q COM's automatic dialling

and call acceptance facilities, together with the storage of messages from other modems, will revolutionise the way you use your telephone.

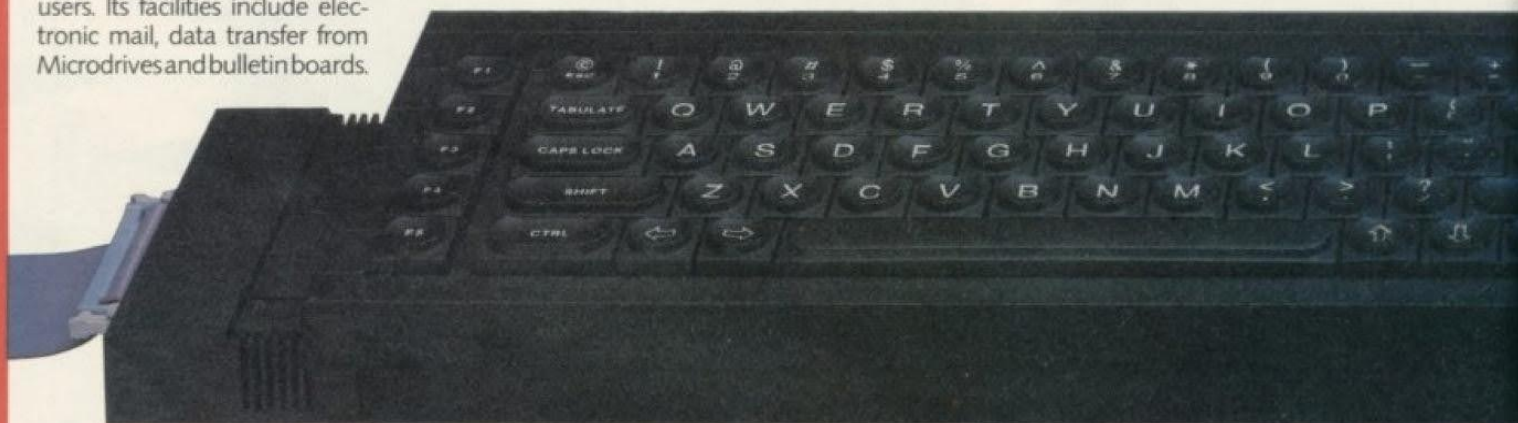
The next few pages of QL News tell you much more.

It's enough for me to say here that with the QL and Q COM,

you'll be exploring new openings in communications for some time to come!

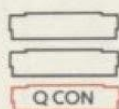
*David Karlin*

David Karlin,  
Chief Design Engineer.



## The Q COM package

### Three special parts to stack!



#### QL communications interface

This multi-speed interface contains the sophisticated software used to set up QL communications – and to control the Q CALL and Q MOD units.

Q CON also comes complete with Microdrive-based software. This enables the QL to link to larger computers using VT100 and viewdata protocols.

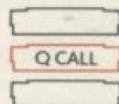
The software will also run any standard modem – connected via Q CON's built-in RS-232-C port.

Most importantly, Q CON allows the QL to transmit and

receive at rates switchable from 75 to 9600 baud (encompassing the widely-used 75/1200 Prestel rates, and 1200/1200 half duplex rates for user-to-user exchange).

Q CON is specially styled to suit your QL – with similar fluting and ribs – and forms the base module of a vertical-stacking system.

It's supplied with full instructions, software on Microdrive cartridge, and connecting leads.



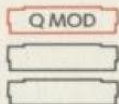
#### QL auto dial/answer unit

Q CALL gives every QL user something out of the ordinary.

It's a module which links directly to your telephone, and allows auto-dialling at the push of a single key. In the same way, it will permit incoming calls to be

accepted automatically... and even trigger pre-programmed activity from the QL!

Q CALL is the central unit of the package. It plugs directly into Q CON – so there are no connecting cables to worry about.



#### QL modem

Q MOD has all the powerful facilities expected of a modem, in a neat and simple unit.

It uses either V23 75/1200 or 1200/1200 baud rates, for Prestel, Micronet 800 and all the

viewdata services described alongside.

It also incorporates a telephone extension socket for manual dialling.

Q MOD is the top unit of



# Exploring the world of QNet, Prestel, Micronet and more!

Thousands of QL users already enjoy the excitement of linking to a nationwide mainframe.

Q COM turns your QL into an intelligent terminal, allowing you to access many thousands of pages of information, software and communications facilities.

The services brought to you through Prestel can include Micronet 800, Viewfax 258 and QNet, the new QL database.

Membership of QNet will bring you free software, QL news and features, and all the wide-ranging services of viewdata!

If armchair shopping is more

your style, that's easy too. It's often possible to place a direct order using your QL! For dedicated QL owners, there's a daily selection of software reviews, chart toppers... and all the facts and figures you need to make buying peripherals simple.

With Q COM you can also 'download' software from the system directly into your QL and either use it immediately, or store it on Microdrive cartridge.

In fact the only problem you'll face with a viewdata service is finding enough time to explore its many features!

You can find out how to join QNet by phoning 01-278 3143.



News... information... banking services and QNet. And only a fraction of the QL's new viewdata capability.

## QL meets the mainframes!

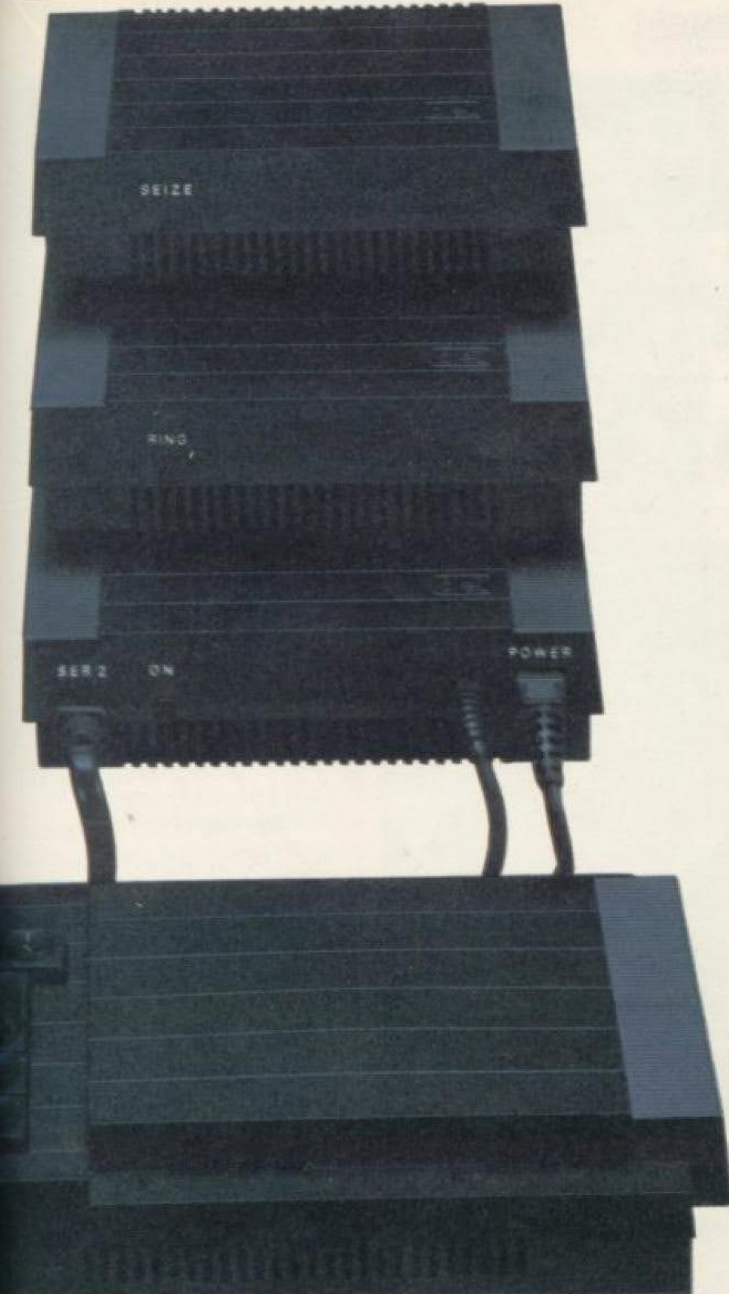
The Q CON unit of Q COM turns your QL into a VT100 terminal, providing instant access to in-house computing services, both mainframe and mini.

Whether you are using your QL at home or at work, QCOM gives you access to electronic bulletin boards which provide help and advice 24 hours a day. You can leave messages or notices for friends or business contacts and even hold live discussions with them.

Additional benefits for the QL business user include easy access of in-house company software, and the interrogation of other data bases around the country.

There's also the opportunity of linking to British Telecom Gold – the widely-publicised and popular messaging service.

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Q COM, and comes with a 9' built-in telephone cable.

All three units are available from Sinclair on (0276) 685311 and from selected Sinclair stockists.

### The QL hooked on voice and data

The QL can now act as your personal address book and telephone operator!

Q COM allows you to store hundreds of personal or business numbers.

You can store lengthy passwords and account numbers – and recall them – at the touch of a single key.

And any information that's sent to you from other modems can be gathered and stored on Microdrive cartridge, or incorporated into your QL Quill documents!





# QL Hardware

## Microdrive cartridge

### price cut to only £1.99!



Sinclair Microdrive cartridges – up to 100K of programs and data on a medium so compact you can pop it into your pocket.

On February 1, the cost of Microdrive cartridges came down from £4.95 to £1.99 each.

Microdrive cartridges are the QL's own unique storage medium. Each stores up to 100K of information (that's 40 pages of A4 text), on a cartridge no bigger than a book of matches!

Over 500,000 cartridges are now being used throughout Britain.

You can store up to 50 different data files per cartridge, identified by titles of your own choice.

And QL Microdrives themselves are standard equipment on the new ICL One Per Desk micro, and British Telecom's new Merlin Tonto.

## IEEE-488... the instrument connection

IEEE-488 is the interface standard set by the Institute of Electronic and Electrical Engineers for instrumentation control.

IEEE-488 – or General Purpose Instrumentation Bus – is a parallel interface specifically designed for high speed data transfer between a number of

different types of device.

It is commonly used for controlling instrumentation via a computer, allowing the creation of laboratory data acquisition systems, industrial control schemes, etc.

The QL now has a fully-fledged IEEE-488 interface from CST. It plugs neatly into the QL's RAM expansion port, and can control up to 16 instruments simultaneously.

It's available from CST on (0223) 323302.

## New inte 3 1/2" or 5 1/4"

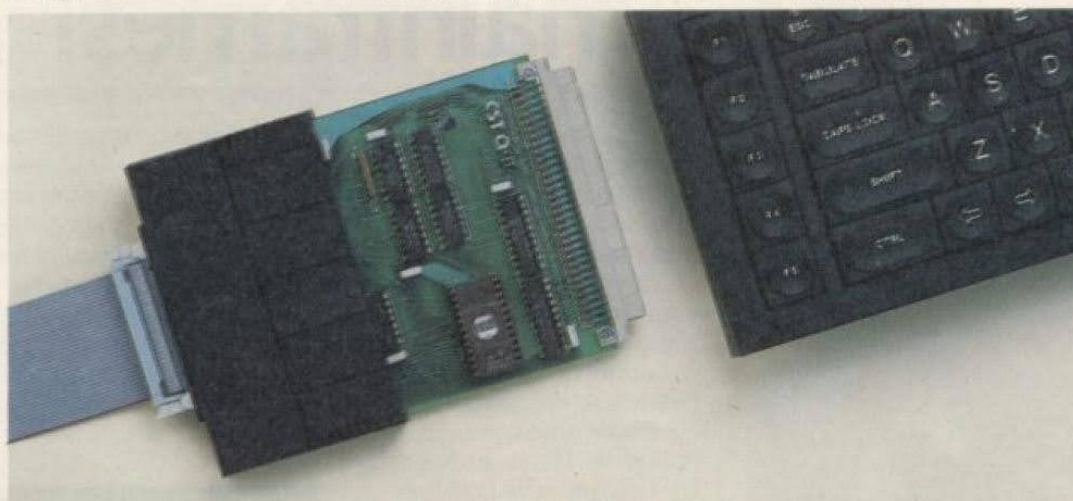
With new Q-Disk, you can transform the QL into a powerful small business system – comprising QL, monitor, disk interface, twin disk drives and printer.

Q-Disk upgrades the QL to disk storage. Fitting easily into the QL's left hand RAM expansion port, without the need for a special expansion box, it contains a Western Digital disk controller chip. Software is held in an on-board EPROM (so little of the QL's RAM is used).

Plug in Q-Disk, and the QL accepts one or two disk drives, sized 3 in, 3 1/2 in, 5 1/4 in, either 40 or 80 track, single or double-sided. Even when two drives are used, they can be different types!

Q-Disk offers up to 1.6 Mbytes of quick, reliable storage with a compatible disk drive.

It's made by Computamate, who also offer a full range of



An IEEE-488 interface slips discreetly into place.





## QL to link students

Strathclyde University, in Glasgow, plans to have a campus network of 7,000 QLs linked to a central VAX minicomputer.

That's one QL for every student... a major investment project in a university which is now a leading centre for artificial intelligence work.

Sinclair is giving support worth £250,000 to the project. And it's likely that QL users

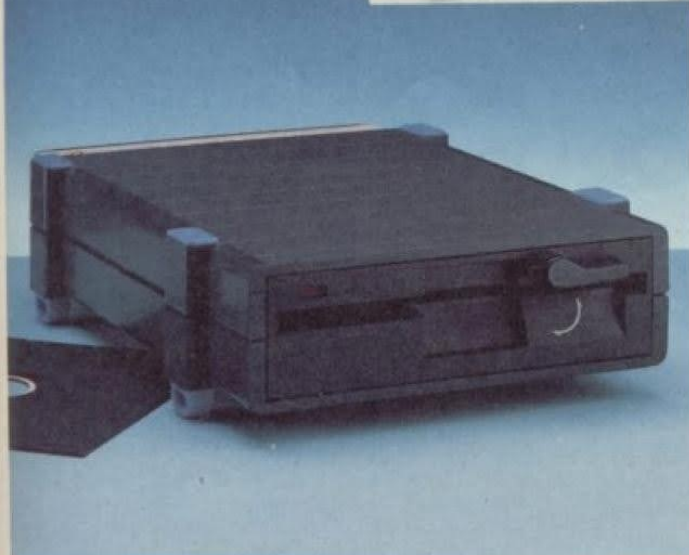
everywhere will benefit – the students plan to develop AI programs to run on the QL!

The QL has impressed Prof. James Alty of the University's Computer Science Department, who says 'only the QL could offer the computing power, range of applications, and above all the portability, at a realistic price.'

## face to connect 3" disk drives

complimentary QL disk drives.

To contact Computamate, phone (0782) 811711.



Single disk unit fitted with 5 1/4 inch drives and (inset) the Q-Disk controller.

# The QL's high-tech spec

### Dimensions

138 x 46 x 472mm  
(5 3/8" x 1 3/4" x 18 3/4")

### Weight

1388 gms (3.055 lbs)

### RAM

Massive 128K standard RAM, externally expandable to 640K. Extra RAM is available in 64K, 128K, 256K and 512K units, from third-party suppliers.

### ROM

48K, containing Sinclair Super-BASIC and the Sinclair Qdos operating system.

### CPU

Motorola 68008 (running at 7.5 MHz) for all principal functions. (Architecturally, the 68008 is a 32-bit processor with an eight-bit data bus. One megabyte of non-segmented address space is available.)

In addition, an Intel 8049 controls the keyboard, generates the sound, and acts as an RS-232-C receiver.

### Operating system

Qdos (developed by Sinclair Research) is a single-user multi-tasking, time-sliced system using Sinclair SuperBASIC as a command language with display handling for multiple screen windows; and device-independent input-output.

### Language

Sinclair SuperBASIC, with the advantages of procedure structuring; extendability (including syntax); interpretation speed independent of program size; clean machine code interface; operating system facilities accessible from SuperBASIC; equal capability for strings and arrays; and full error-handling facilities.

### Microdrives

The QL incorporates twin QL Microdrives, each with a minimum 100K capacity, 3.5 seconds average access time. Typical loading rate of machine code programs is 2-3K per second.

### Video

High resolution graphics capability with colour or monochrome monitor (or TV) in two modes – 512 x 256 pixels (four

colours available) and 256 x 256 pixels (eight colours available). Normal character display format of up to 85 x 25 with choice of character sets available (TV format of up to 40 to 60 columns depending on the software).

### Keyboard

Full-size, 65-key QWERTY keyboard featuring a space bar, left- and right-hand shift keys, five function keys and four cursor control keys. The keyboard can be angled by means of detachable feet.

### Expansion

Excluding RGB monitor, power socket and TV port, eight peripheral/expansion ports are provided – one internal expansion, one Microdrive expansion, one ROM cartridge, two serial and two control channels, and the local area network.

### Serial

Two standard RS-232-C communications interfaces for printers, modems, etc. Transmission at rates from 75-19200 baud or full duplex transmit/receive at seven rates up to 9600 baud.

### LAN

For up to 64 QL computers. Data transmission over the net can be achieved at 100K baud.

### Power supply

9V DC at 1.8A, 15.6V AC at 0.2A.

### Joysticks

Provision for one or two devices for games or cursor control.

### Applications Software

QL Quill – word processor  
QL Abacus – spreadsheet  
QL Easel – graphics  
QL Archive – database  
All four packages supplied with the QL.

### Price

£399 including VAT, QL programs, full A4 manual, power supply, 4 blank cartridges and free Helpline service.

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# QL Software

## Updated versions of Psion software now available!

QL Abacus, Archive, Easel and Quill are the four Psion programs supplied with every QL. They're now converted to 100% machine code, and as a result they load from Microdrive cart-ridge much faster.

The overlays present in Version One software have been removed, resulting in noticeably quicker on-screen performance.

With the compactness of machine code, there's a big saving in QL memory too – all four programs now cope with larger, more professional applications!

Version Two software is now supplied with every new QL. Existing QLUB members – see back page.

### QL-Quill

QL Quill makes it easy to type in, correct and store your letters, memos and reports.

No training is needed – a beginner can be using QL Quill for word-processing within minutes!

QL Quill has the facilities of professional word processing packages: including word wrap, search and replace, justification, page headers and footers.

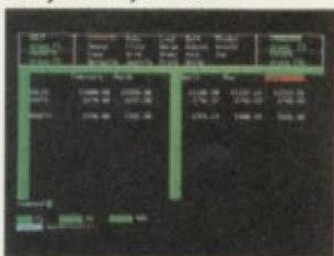


### QL-Abacus

QL Abacus is a powerful, yet easy-to-use spreadsheet.

The program allows you to manipulate the contents of whole rows and columns by the names you assign them. There's no need to depend on confusing letters and numbers.

QL Abacus also incorporates a range of functions which let you carry out rapid 'what if' analyses on your data.

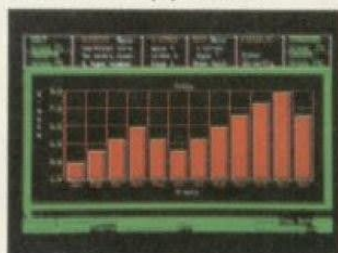


### QL-Easel

QL Easel allows you to create graphs, bar charts and pie charts – at the touch of a key.

The program handles anything from lines and shaded curves to overlapping or stacked bars.

QL Easel designs and scales automatically or under your control. Text can be added and altered as simply as data.

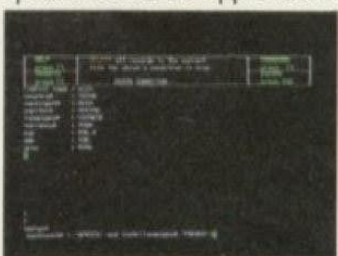


### QL-Archive

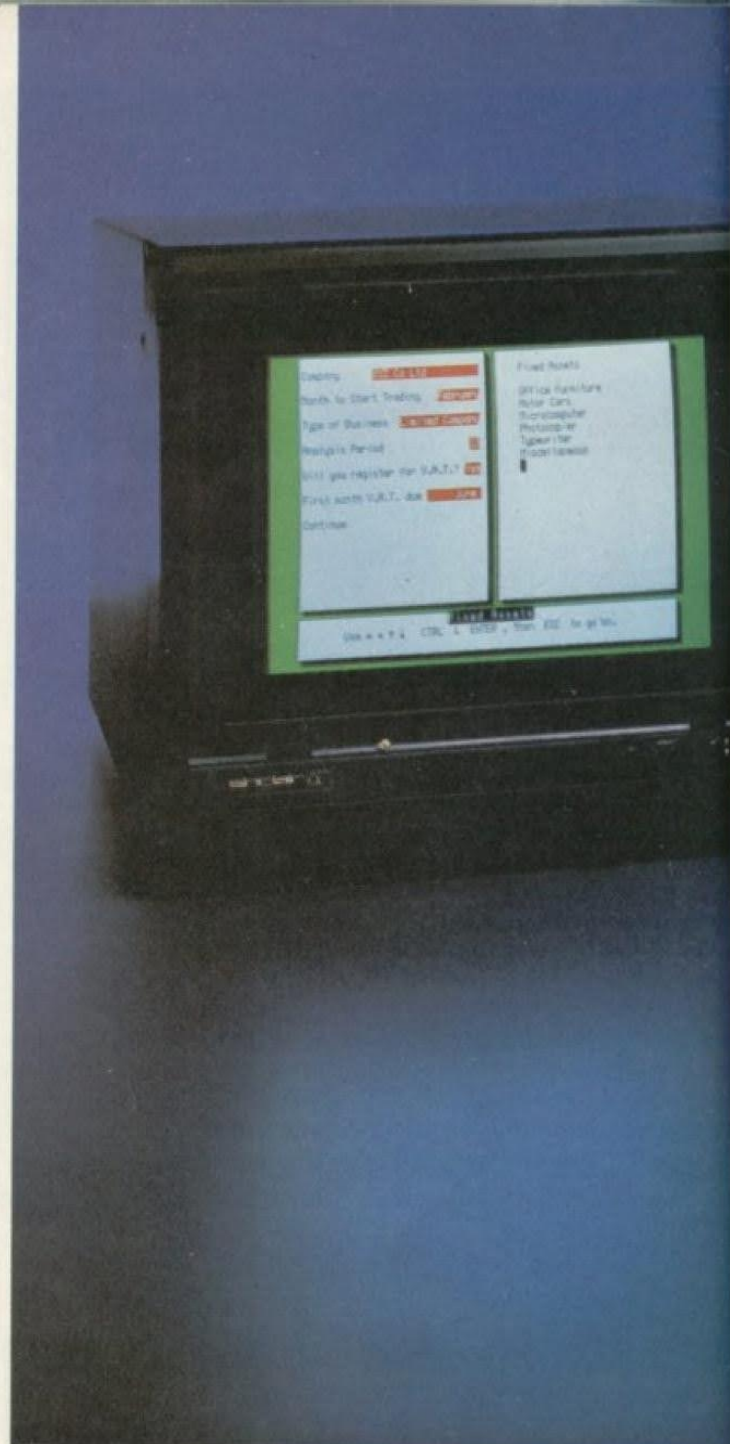
QL Archive is a sophisticated, powerful database program.

It includes a screen editor which allows you to design your own screen and format your reports, and a procedure editor which lets you tailor QL Archive to your own requirements.

QL Archive is ideal for all database uses, yet it's powerful enough to be used by many software houses to generate specific database applications.



Non-members of QLUB can purchase new versions of the above software for £15 per title, or £50 for all four programs. Phone (0276) 686100 for details.



(Left to right) QL Entrepreneur, QL Project Planner and QL Decision Maker from Sinclair.

## Coming soon- QL-Entrepreneur, QL-Project Planner, QL-Decision Maker!

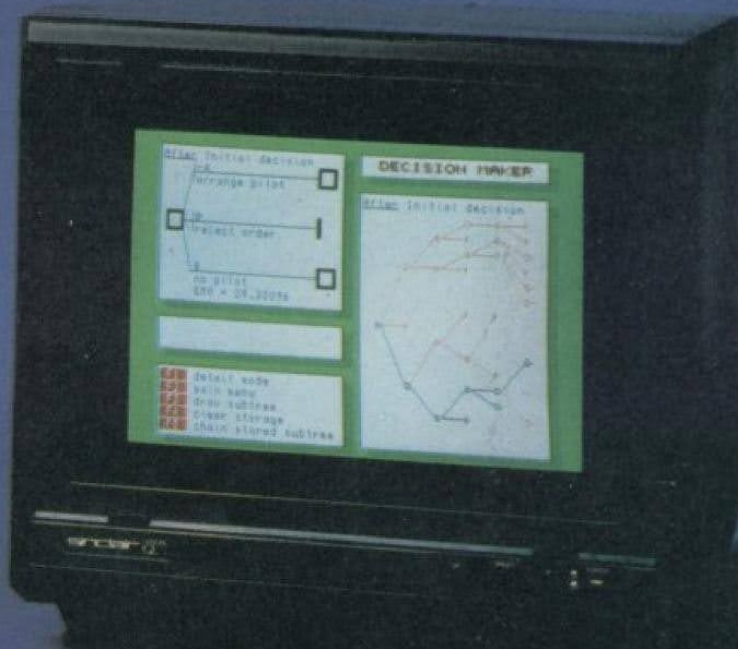
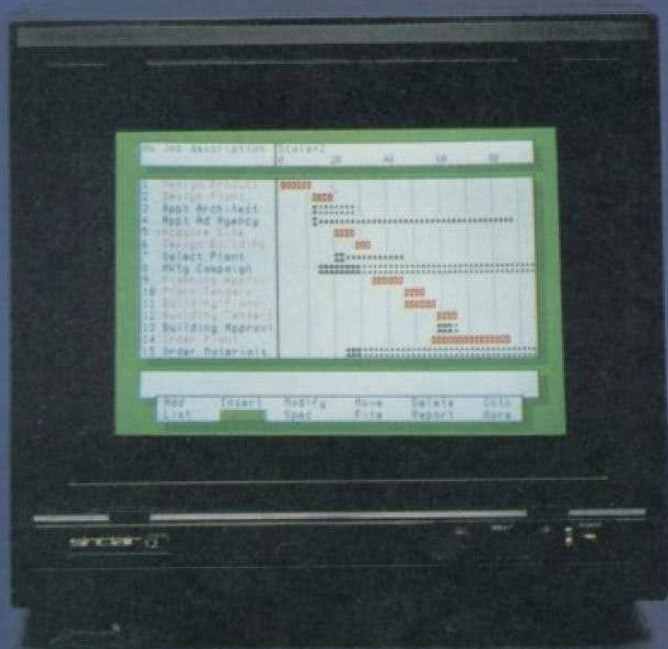
Three new QL business programs – with a difference!

QL Entrepreneur, QL Project Planner and QL Decision Maker train you to apply new and exciting management skills – through original and powerful means!

An interactive teaching program gives you a thorough and enjoyable understanding of each subject – backed by a text-book and 'self-test' facilities – and an applications program helps you to use your new expertise for specific problems and projects.

All three titles will increase your understanding and extend your control – making involved subjects easy, stimulating and useful!





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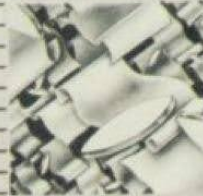
## QL-Entrepreneur



Software by  
Triptych Publishing Ltd

sinclair

## QL-Project Planner



Software by  
Triptych Publishing Ltd

sinclair

## QL-Decision Maker



Software by  
Triptych Publishing Ltd

## QL-Entrepreneur

QL Entrepreneur is an essential program for anyone preparing to start a new business – whatever it may be!

It uses a 'question and answer' format to help you build a workable business plan.

With the input you give, it works out the break-even point of the business; the first 18 months' cash flow, the type of finance needed; the year end Balance Sheet and Profit and Loss accounts... and more!

QL Entrepreneur builds your skills and techniques.

It's flexible too, so that you can ask complex 'what if' questions at any stage!

The program comes with a third, blank Microdrive cart-

ridge and a comprehensive A5 manual.

## QL-Project Planner

QL Project Planner will produce plans you can understand, monitor and more easily achieve.

First, you break the project down into its individual activities, telling QL Project Planner how long each takes and which are inter-dependent.

When you decide on a starting time/date QL Project Planner will tell you when each activity must start and finish and when the project will be completed.

Each activity is divided into its critically important stages – those which can safely be moved around without altering

the time taken by the project and those where movement will affect the completion deadline.

Whether or not you've used project planning systems before, you'll be amazed at the difference QL Project Planner can make.

The program comes with a third, blank Microdrive cartridge and a comprehensive A5 manual.

## QL-Decision Maker

Whether you're thinking of buying a house, or taking on a new business contract, QL Decision Maker makes the choices clearer!

It lets you look at the possibilities – and their implications – through a decision tree.

Once you've set out the decisions and their probable costs or results, QL Decision Maker shows the outcomes which would occur from each particular route.

You can see how much money a decision could make for you... or cost you. Complex 'what if' questions are dealt with swiftly and graphically.

You can depend on the QL to highlight the best possible route!

QL Decision Maker comes with a third, blank Microdrive cartridge and a comprehensive A5 manual.

All three programs are available from Sinclair stockists, price £39.95 each, or Sinclair Research. Tel: (0276) 686100.

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# Now, buy a QL and you're a member of the QLUB-free!

QLUB is the special Users Bureau for Sinclair QL owners.

Already, there are well over 10,000 QLUB members . . . enjoying a whole range of information and advisory services.

Until now, joining QLUB cost £35 per year. From March 4, every new QL

owner can become a member – free of charge!

With your new QL, you'll find a post-paid form. Complete and mail it, and you'll soon be a member of the fastest growing computer club in the country.

And you'll enjoy all the helpful services listed here!

## What QLUB membership offers you

### Regular newsletters delivered to your door

One of the most important QLUB benefits is the special news magazine, appearing six

times a year. The magazine provides a forum for QL owners to exchange views and keep in

touch with all the latest developments.

Each issue is packed with updates on QL hardware and software, tips on applying the four QL programs, and news of how other people are using the QL.



## Special discounts

QLUB members also receive a range of special discounts, with savings of at least 20% on selected software products.

There are also special subscription rates for Personal Computer News and QL User.

## Free Helpline service from Psion

All QLUB members are entitled to 12 months special assistance from Psion.

They're at the end of the telephone to answer any questions on using the QL Abacus, Archive, Easel and Quill programs supplied with the computer.

Help is also available on any aspect of using Sinclair SuperBASIC, Qdos, or linking your QL with major peripherals.

Psion will normally answer any queries within 48 hours.

*QL program updates are no longer available free to QLUB members. They will be sold separately.*

## Good news for existing QLUB members too!

As one of the first members of QLUB, you should already have received one free update of each of the four QL programs – and a letter with your new membership details.

If for any reason you haven't, you should ring (0276) 686100.

## You're a QL owner, but not a QLUB member?

Then joining QLUB is easy and free! Ring (0276) 685311 for full details. You can be a full QLUB member within a few days.

## Where to find the QL

The Sinclair QL is available at selected branches of Dixons, WH Smith, John Lewis Partnership, Currys, Greens in Debenhams and Ultimate, and larger branches of Boots, John Menzies and specialist computer stores nationwide.

® Sinclair, QL, QLUB, Qdos, and SuperBASIC, are Trade Marks of Sinclair Research Ltd. Quill, Easel, Archive and Abacus are Trade Marks of Psion Ltd.

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Camberley, Surrey, GU15 3BR.  
Tel: Camberley (0276) 686100.

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